OPERATING MANUAL LIFT CONTROLLER SYSTEM DAVID-2005



Functions Start-Up Instructions





OPERATING MANUAL DAVID-2005

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| Aufzugstechnik GmbH | KW Aufzugstechnik GmbH OPEF | RATING MANUAL DAVID-2005 | |
|---------------------|--------------------------------------|--------------------------|----------|
| B5 | INDICATION | | 72 |
| B501 | CAR INDICATOR | | 72 |
| B502 | CAR ARROWS | | 73 |
| B503 | FLOOR INDICATOR | | 74 |
| B504 | GONG AT THE CAR | | 74 |
| B505 | GONG AT THE FLOOR | | 74 |
| B506 | LED-MATRIX INDICATOR | | 75 |
| B300 B6 | SPECIAL FUNCTIONS | | 76 |
| B600 | MONITOR-FUNCTIONS | | 76 |
| B600 B601 | INSPECTION-DRIVE | | 70 |
| B602 | EMERGENCY-LIGHT-SYSTEM | | 78 |
| B602 B603 | CAR FAN | | 78 79 |
| B603 B604 | LOAD MEASURE | | 79 80 |
| B605 | | | |
| B605 B606 | STAND-BY-DRIVE PARKING-TRAVEL | | 80 81 |
| | FLOOR BLOCKING | | |
| B607 B608 | CAR-LIGHT SWITCH OFF | | 81 |
| B609-12 | PRIORITIES OF SPECIAL DRIVES | | 82 82 |
| B609-12 B609 | EMERGENCY-POWER SERVICE | | |
| B610 | EMERGENCY-FIRE SERVICE | | 83 83 |
| B611 | FIRE FIGHTER SERVICE | | 84 |
| B612 | RESCUE TRAVEL | | 85 |
| B612 B613 | LEADER FUNCTION | | 85 |
| B614 | HOTEL STOP | | 85 85 |
| B615 | TIME RELAYS | | 85 85 |
| B616 | ELEVATOR-OBSERVER | | 86 |
| B617 | CAR-LOCKING | | 87 |
| B618 | CODE-KEY | | 88 |
| B7 | INPUTS / OUTPUTS | | 89 |
| B71 | ALLOCATION OUTPUTS | | 89 |
| B72 | ALLOCATION INPUTS | | 95 |
| B73 | DEFAULT VALUES R30 TO R52 | | 101 |
| 5. | DIAGNOSIS AND FAULT HANDLING | | 114 |
| C0 | CONTROLLER RESET OVER HPG 60 | | 114 |
| C1 | CAR CALLS OVER HPG-60 | | 114 |
| C2 | IN- AND OUTPUT SIGNALS | | 114 |
| C3 | EVENT / FAULT LOG | | 114 |
| C4 | INSPECTOR-DRIVE | | 115 |
| C5 | LEVEL CONTROLLING | | 115 |
| C6 | UNITS CONTROLLING | | 116 |
| C7 | MOUNTING DRIVE | | 116 |
| F01 | FAULT DESCRIPTION | | 117 |
| W01 | CHANGE OF THE CPU-CARD OF THE CENTR | RAL UNIT ZR | 120 |
| 6. | INFORMATION | | 120 |
| D1 | EVENT MESSAGES | | 120 |
| D2 | TRIP COUNTER | | 120 |
| D3 | RUN TIME COUNTER | | 111 |
| D4 | DOOR MOTION COUNTER | | 120 |
| 7. | START UP | | 121 |
| 100 | MOUNTING DRIVE | | 121 |
| 101 | COMMISSIONING THE DIGITAL SHAFT COPY | / | 121 |
| 102 | COMMISSIONING THE ABSOLUTE SHAFT CO | | 124 |
| 103 | COMMISSIONING THE ABSOLUTE SHAFT CO | OPY WITHOUT SWITCHES | 126 |
| 104 | COMMISSIONING THE INSPECTOR FUNCTIO | ONS C41 to C413 | 128 |
| | | | |



GUARANTEE

By this consumer guarantee KW Aufzugstechnik GmbH guarantees the product to be free from defects in material and workmanship for two (2) years from the time of its original purchase.

CONDITIONS

This guarantee will not reimburse nor cover damage resulting from adaptations or adjustments which may be made to the product, without the prior written consent of KW Aufzugstechnik GmbH, in order to conform to the national or local technical or safety standards in force in any country other than the ones for which the product was originally designed and manufactured. This guarantee will not apply if the type or serial number on the product has been altered, deleted or made illegible.

This guarantee covers none of the following:

- Periodic maintenance and repair or replacement of parts due to normal wear and tear;
- Any adaptation or changes to moify the product from its normal purpose as described in the instruction manual, without the prior written consent of KW Aufzugstechnik GmbH;
- Transport costs, home service transport costs and all risks of transport relating directly or indirectly to the guarante of the product;
- Damage resulting from:
 - Misuse, including but not limitted to (a) failure to use the product for its normal purpurse or in accordance with KW Aufzugstechnik GmbH's instructions on the proper use and maintenance, and (b) installation or use of the productin a manner inconsistent with the technical or safety standardsin force in the country where it is usedand (c) improper or incorrect installation of software.
 - o Repair done by non authorized service stations or dealers, or the customer himself;
 - Accidents, lighting, water, fire, improver ventilation or any cause beyond the control of KW Aufzugstechnik GmbH;
 - o Defects of the system into which this product incorporated.

This guarantee does not affect the consumer's statutory rights under applicable national laws in force, nor the consumer's rights against the dealer arising from their sales/purchase contract.

1.2 SAFETY CONDITIONS

IN GENERAL

Running the controller system DAVID-2005 without casing is forbidden, because of the high voltage in there. If you do runing without casing, there could be personal damage.

Only skilled workers can do working at the frequency inverter system controller system DAVID-2005. It must be consider the following national and local safety conditions and laws: DIN VDE0100 ,DIN VDE 0110,IEC364,IEC664

USE OF THE CONTROLLER SYSTEM DAVID-2005

The controller system DAVID-2005 is device for the use in elevators. Other using is forbitten without the prior written consent of KW Aufzugstechnik GmbH. The following laws must be considered, when you are build in the inverter:

- EG-Richtlinie 89/392/EWG (Maschinenrichtlinie).
- EN 60204.
- Niederspannungsrichtlinie 73/23/EWG
- EMV-Richtlinie (89/336/EWG)
- prEN 50178/DIN VDE 0160.
- EN 60439-1/DIN VDE 0660 Teil 500 EN 60146/DIN VDE 0558.

TRANSPORT AND MOUNTING

The transport of the frequency inverter must be very carefully organized. Please do not touch electronical parts and terminals. They could be destroyed by the hand voltage of a person! If you want to connect the frequency inverter, you don't have to open the casing. All terminals are out there. Please pay attention at the place above and under the inverter. It is nessary for cooling.

SERVICE



Aufzugstechnik GmbHOPERATING MANUAL DAVID-2005Only parts of manufacturer are allowed to use. The lead gel accumulator is aging between the lifetime.With demand for highest availability a preventive exchange is recommended after one year. The
cleaning is permissible only with halogeneous-free means.

1.3 EG-Declaration of Conformity

Produkt

Controller for Elevators

Тур

Microprocessor System DAVID -2005

We confirm that the a.m. product complies with the applicable EG-guidelines mentioned below, and that it has been designed and manufactured in accordance with these standards. A operating instruction is issued with each unit. The safety advices must be studied in detail, before operating the unit.

EG-Guideline 89/336 EWG, Electromagnetic Compatibility DIN Standard EN 50081 Part 1, Electromagnetic Compatibility, Basic Standard Radiation Disturbance in Living-, Business-, and Working Quarters DIN EN 55011 Standard, High Frequency Interference, Class B Living Quarters DIN EN 50082 Part 1 und 2, Electromagnetic Compatibility, Basic Standard Resistance against Interference in the Industry IEC 801-2, corresponding with VDE 0843 Electrostatic Discharge ESD IEC 804-1, corresponding with prEN 55024 Part 4, Burst-Test with Signal- and Control Cables IEC 804-1, corresponding with prEN 55024 Part 4, Burst-Test with AC-Supply Cables

Eschborn, den 01.08.2001

MATT

Hans-Werner Walbert



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1.4 Description Processor Inquiry-Safety Circuit

KW Aufzugstechnik GmbH

FUNCTION

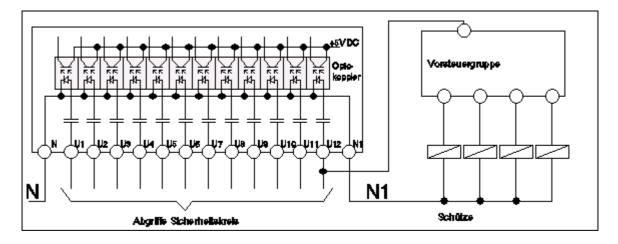
The Central Processing Unit contains a function through which the voltage level in the safety circuit of the elevator system is monitored. The safety circuit voltage is divided through X2 capacitors and resistors and then forwarded to the input of the opto-couplers. Further processing of these signals is executed through the connected electronic circuits, under potential separation.

FUNCTION TEST

All safety-relevant contactors must only use the N1-potential as zero potential.For the purpose of testing, the N1-potential can be disconnected. This must cause all safety-relevant contactors to trip.

DECRIPTION OF TERMINAL CONNECTIONS

For the inquiry of voltage levels in the safety circuit, 12 input terminals (U1 up to U12) are available. These terminals are plug-in terminals in the 7,62 mm standard. The N and N1 potential are also connected to these terminals. The wiring diagram shown below represents the actual circuit layout as tested and executed.



Eschborn, den 01.08.2001

tell

Hans-Werner Walbert



1.5 Description Temperature Monitor

Product Controller for Elevators

Type Microprocessorsystem DAVID-2001/2005/606 – Main Unit ZR

The central unit ZR has an electronic circuit for the collection of the temperature within the equipment. In the software the temperature thresold can for the cycle non-repeat function of the plant can between 30 degrees Celsius and 100 degrees Celius be adjusted.

During factory setting the temperature thresold was specified on 60 degrees Celsius.

Stopping the plant means an entry with a rope elevator into the next stop and/or with a hydraulic elevator the execution of an emergency sinking in the lowest stop and refusal of call acceptance to the swichgear cabinet temperature below the limit value threshold sinks.

Oberursel, den 01.03.2006

ATT

Hans-Werner Walbert



2.1 Performance Features of the Microprocessorsystems DAVID-2005

The microprocessorsystem DAVID-2005 is a very high flexible controller system for rope- and hydraulic elevators with maximal 32 floors. You can choose a very high number of controller types, like Send-controlling, attendant-controlling, no-collecting, One-button down, one button up & down, Two buttons aud the group function with an optional pcb-card.

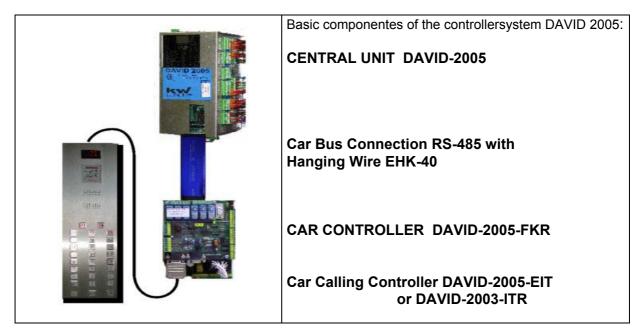
Fundamentally all door types can be used with this controller, like automatic with limitswitch / without limitswitch, or handdoors with or without cardoor by choosing the right parameters.

There are 5 systems of shaft copy in the controller software. If you are working only with magnets you can choose between Standard and minimum copy. If you are prefering digital shaft copy systems you have three possibilities like relative-, absolute digital copy and the system which use the pulses of the motor encoder.

For functions, like pre-opening doors or releveling, you can use our safety-pcb-board. The microprosseor-units in the casing, on the car, in the car panel and in the floor can show the position of the car by car indicators in different codes (1 of N, binär & graycode). For the direction arrows and the hall lantern are also output channels at the units, the gong-function is a stanard-function of the system. You have only to connect a loudspeaker at output-terminals.

The controller have a lot of special functions, like fire evacuation service, emergency power service, fire fighter service,.. in the software.

With the help of the mobil handterminal HPG-60 with LCD-Display and clear sentence working in two langunges, you can make the commissioning and monitoring at the car and perhaps inside the car though the car panel. There is a Event / Fault Log with a depht of 100 entries.





2.2 Description Central Unit ZR

The central-unit in a full casing of aluminium metal with an integrate power supply of 24V DC 4,0A and a emergency power supply of 12V DC 1,2A. You do not need a optional power supply. The system has the following in- & output channel and interfaces:



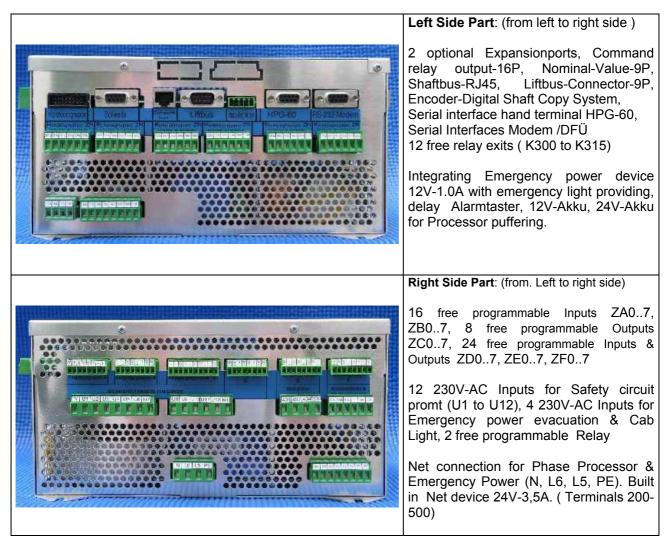
Indication of the Running System (from top to bottom)

The multifunctions indicator on the top side of the casing shows you a lot of typical informations about the running system:

- Actual carposition
- Safety-ciruit (red LED -> Open green LED-> closed)
- Monitorfunction about the voltage and running of the ZRand FKR-controllersystem
- Four LEDs about the emergency supply
- Indication about the speeeds and the direction
- Switching position of the shaft copy
- Doorfunctions

Each DAVID-2005-ZR-Unit get a serial number, as characteristic of existed climatic and function tests.

In the lower part of casing cover is a connection of the hanging wire. (Plug and Play).





| Aufzugstechnik GmbH | KW Aufzugstechnik GmbH | OPERATING MANUAL DAVID-2005 |
|---------------------|------------------------|--|
| | | Bottom Side Part: (from Left to right side) facutaltive Additionaloutlet Connection Groupe bus 1 RJ45 (facilities 1-4), Connection Groupe bus 2 RJ45 (facilitiers 5-8), Connection Inspection contactor K60, 2xIntercom, 5 free hanging wire conductor |
| | | Upstairs Side Part: (from Left to right side) Connector Bus-display Typ KW; Button Call lowest stop, Button Call highest stop, Button Care Doors close for 15 min., Motor-ptc (Treminal 151,152) |



| Emergency light | 101 | | 200 | Controller Voltage +24V |
|---|--------------|--|--------------|------------------------------|
| GND | 500 | KW DAVID-2005 | 200 | Controller Voltage +24V |
| Intercom | 100 | ZR Level 1 | 200 | Controller Voltage +24V |
| Level Indicator | 100 | | 200 | Controller Voltage +24V |
| 20101 110100101 | | | 200 | Controller Voltage +24V |
| GND | 500 | | 200 | Controller Voltage +24V |
| Alert output | 102 | | 500 | GND |
| Voltage +12V | 102 | Power Supply 24V 3,5A Max. | 500 | GND |
| Alert button | 103 | | 000 | |
| Akku - | Akku- | | PE | Shield |
| Akku + | Akku+ | | L5 | 230V AC emer. power device |
| 0V Puffer Akku | GND | Emorgonov nover supply | L5 L6 | 230V AC Eller: power device |
| +24V Puffer Akku | ESV | Emergency power supply 12V 1.0 A Max. | N | Zero |
| T24V Fullel AKKu | ESV | 12V 1,0 A Max. | IN | 200 |
| 1 | | | | |
| Car Pos.Indicator 25h no. | 311a | | L51 | Car Light on |
| Car P.Indicator 25h com. | | | L5 | Car Light com |
| | 311c | | | |
| Car Pos.Indicator 24h no. | 310a | | 312a | standart operation schließer |
| Car P.Indicator 24h com. | 310b | | <u>312</u> b | standart operation com |
| | 310c | | 312c | |
| | | | | |
| Car Pos.Indicator 23h no. | 309a | | | |
| Car P.Indicator 23h com. | 309b | KW DAVID-2005 | | |
| | 309c | ZR Level 2 | | |
| Car Pos.Indicator 22h no. | 308a | | | |
| Car P.Indicator 22h com. | 308b | EA-Rahmen 11: 1-KS-12HS-Seil | | |
| | 308c | | | |
| | | | | |
| Car Pos.Indicator 21h no. | 307a | | | |
| Car P.Indicator 21h com. | 307b | | | Input 230V AC Car Light |
| | 307c | | 404 | Ŭ |
| Locked magnet closer | 306a | | | Emergency power drive |
| Locked magnet com. | 306b | | 401 | Emergency power device |
| Locked magnet opener | 306c | | | |
| Door 2 close closer | 3050 | | | |
| Door 2 close closer Door 2 close com | 305a 305b | | | |
| Door 2 close opener | 305b 305c | | | |
| Door 2 open closer | 305C 304a | | | |
| Door 2 open com | 304a 304b | | | |
| Door 2 open opener | 304b 304c | | N1 | Zero Conductor |
| | 00-10 | | U12 | |
| Door 1 close closer | 303a | | | Safery-Circuit U11 |
| Door 1 close com. | 303b | | | Safery-Circuit U10 |
| Door 1 close opener | 303b 303c | | U9 | Safery-Circuit U9 |
| Door 1 open closer | 303c 302a | | U8 | Safery-Circuit U8 |
| Door 1 open com | 302b | | | |
| Door 1 open opener | 302b 302c | | U7 | Safery-Circuit U7 |
| | 3020 | | U6 | Safery-Circuit U6 |
| No disturbance closer | 301a | | U5 | |
| No disturbance com | 301a 301b | | U4 | Safery-Circuit U4 |
| No disturbance opener | 301b 301c | | U3 | Safery-Circuit U3 |
| Alert message closer | 300a | | U2 | Safery-Circuit U2 |
| Alert message com | 300a 300b | | U1 | Safery-Circuit U1 |
| Alert message opener | 300b | | N | Zero |
| | 0000 | | | |

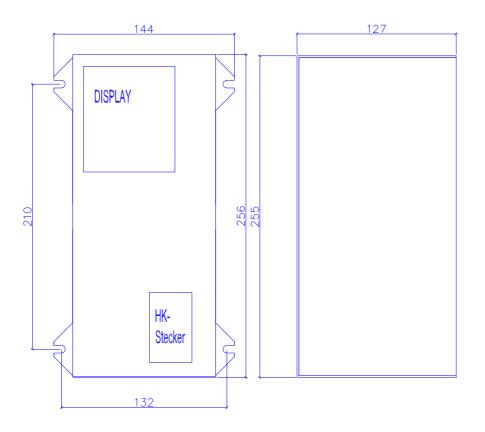


| | , | | | | | | |
|--|----------------|---|--|---------------------|--|--|---|
| | | | D D | | | | |
| | | | CIOSE | - g | all ay leve | | |
| | | 00 | 5 | st o | & dip in to | | |
| | | Ы | 3 | ghe | n ir d | | |
| | | Motor PTC Motor PTC | | hid - | ect atri | | |
| | | Mo | ň | Button highest call | Laster lowest call terface 10Pol. Flac For matrix-diplay ar position indicative tive direction & lev | | |
| | | | DUILOIT SELVICE | But | I aster lowest call Interface 10Pol.Flach For matrix-diplay Car position indicator Drive direction & level | | |
| | | , i i i i i i i i i i i i i i i i i i i | ñ | | - 00 | - | <u>. </u> |
| GND | 500 | 151 152 | | | | ZF-7 | Continued travel Up F11 |
| Down | 3 | | | | | ZF-6 | Continued travel Up F10 |
| Up | 5 | | | | | ZF-5 | Continued travel Up F09 |
| Fast / K5 | 7 | | | | | ZF-4 | Continued travel Up F08 |
| slow/Brake | 9 11 | | | | | ZF-3 ZF-2 | Continued travel Up F07 Continued travel Up F06 |
| Motortemperatur +24V DC control voltage | 200 | | | | | ZF-2 ZF-1 | Continued travel Up F05 |
| +24V DC control voltage | 200 | | | | | ZF-0 | Continued travel Up F04 |
| GND | 500 | | | | | 210 | |
| Drive direction Up | ZU1 | | | | | ZE-7 | Continued travel Up F03 |
| Drive direction Down | ZU2 | | | | | ZE-6 | Continued travel Up F02 |
| Speed Vinsp. | ZU3 | | | | | ZE-5 | Continued travel Up F01 |
| Speed Vnach | ZU4 | | | | | ZE-4 | Landing call Down F 12 |
| Speed V0 | ZU5 | | | | | ZE-3 | Landing call Down F 11 |
| Speed V1 | ZU6 | | | | | ZE-2 | Landing call Down F 10 |
| Speed V2 | ZU7 | | | | | ZE-1 | Landing call Down F 09 |
| Speed V3 | ZU8 | | | | | ZE-0 | Landing call Down F 08 |
| | | | | | | 70.7 | Landing call Down F 07 |
| Shaft bus-RS485-Shield | | | | | | ZD-7 ZD-6 | Landing call Down F 06 |
| Shaft bus-RS485-wire | RJ-45 | | | | | ZD-5 | Landing call Down F 05 |
| Shaft bus -RS485-wire | 110-40 | | | | | ZD-4 | Landing call Down F 04 |
| | | KW | DAVID-2 | 005 ZI | R Level 3 | ZD-3 | Landing call Down F 03 |
| CAN-Bus-Karte Optional | | | | | | ZD-2 | Landing call Down F 02 |
| CAN-Bus-Karte Optional. | CAN | EA-F | Rahmen 1' | 1: 1-KS- | -12HS-Seil | ZD-1 | Landing call Down F 01 |
| CAN-Bus-Karte Optional. | | | | | | ZD-0 | Continued travel Down F12 |
| | | | | | | 70.7 | Continued travel Down E11 |
| Liftbus-RS485-Shield | RJ-45 | | | | | ZC-7 ZC-6 | Continued travel Down F11 Continued travel Down F10 |
| Liftbus-RS485-wire Liftbus-RS485-wire | NJ-45 | | | | | ZC-0 ZC-5 | Continued travel Down F09 |
| LINDUS-N3403-WIFE | | | | | | ZC-4 | Continued travel Down F08 |
| Abs.measuring encorder Opt. | | | | | | ZC-3 | Continued travel Down F07 |
| Abs.measuring encorder Opt. | | | | | | ZC-2 | Continued travel Down F06 |
| Abs.measuring encorder Opt. | ABS | | | | | | Continued travel Down F05 |
| Abs.measuring encorder Opt. | | | | | | ZC-0 | Continued travel Down F04 |
| Abs.measuring encorder Opt. | | | | | | 71 | Zone 1 |
| · · · · · · · · · · · · · | | | | | | 72 | Zone 2 |
| | | | | | | 70.7 | Continued travel Davin 502 |
| Earth - Shield | PE | | | | | ZB-7 | Continued travel Down F03 |
| Shaft copy Spur A | 83 | | | | | ZB-6 ZB-5 | Continued travel Down F02 |
| Shaft copy Spur B GND | 84 500 | | | | | ZB-5 ZB-4 | Remote release Output Fire evacuation floor pri. 2 |
| +24V DC Control Voltage | 200 | | | | | ZB-4 ZB-3 | Fire evacuation floor pri. 2 |
| +24V DC Control Voltage | 200 | | | | | ZB-3 ZB-2 | Control & Light off |
| | | | | | | ZB-1 | Landing control off |
| | | | | | | ZB-0 | Contactor monitoring |
| | | | | | | | |
| | | | | | | | Delevation exchant Down |
| Serial Interface 2 | Deara | | | | | ZA-7 | Releveling control Down |
| Serial Interface 2 | RS232 | | | | | ZA-6 | Releveling control Up |
| | RS232 | | | | | ZA-6 ZA-5 | Releveling control Up Releveling control I/O |
| Serial Interface 2 | RS232 | | | | | ZA-6 ZA-5 ZA-4 | Releveling control Up Releveling control I/O Overload |
| Serial Interface 2 Serial Interface 2 | RS232 | | | | | ZA-6 ZA-5 ZA-4 ZA-3 | Releveling control Up Releveling control I/O Overload Brake open monitor |
| Serial Interface 2 Serial Interface 2 Serial Interface 1 HPG60 | | | | | 201400F | ZA-6 ZA-5 ZA-4 ZA-3 ZA-2 | Releveling control Up Releveling control I/O Overload Brake open monitor Releveling |
| Serial Interface 2 Serial Interface 2 Serial Interface 1 HPG60 Serial Interface 1 HPG60 | RS232 RS232 | RJ45 | RJ45 | 60D 602 | 603 ZH4 ZH6 ZH6 ZH7 | ZA-6 ZA-5 ZA-4 ZA-3 ZA-2 ZA-1 | Releveling control Up Releveling control I/O Overload Brake open monitor Releveling Safety circuit Zones |
| Serial Interface 2 Serial Interface 2 Serial Interface 1 HPG60 | | 0 | | | | ZA-6 ZA-5 ZA-4 ZA-3 ZA-2 | Releveling control Up Releveling control I/O Overload Brake open monitor Releveling |
| Serial Interface 2 Serial Interface 2 Serial Interface 1 HPG60 Serial Interface 1 HPG60 | | 0 | | | 20 20 20 | ZA-6 ZA-5 ZA-4 ZA-3 ZA-2 ZA-1 | Releveling control Up Releveling control I/O Overload Brake open monitor Releveling Safety circuit Zones |
| Serial Interface 2 Serial Interface 2 Serial Interface 1 HPG60 Serial Interface 1 HPG60 | | 1 Shield 8 1 wire 8 1 wire | | | 20 20 20 | ZA-6 ZA-5 ZA-4 ZA-3 ZA-2 ZA-1 | Releveling control Up Releveling control I/O Overload Brake open monitor Releveling Safety circuit Zones |
| Serial Interface 2 Serial Interface 2 Serial Interface 1 HPG60 Serial Interface 1 HPG60 | | 1 Shield 8 1 wire 8 1 wire | | | 20 20 20 | ZA-6 ZA-5 ZA-4 ZA-3 ZA-2 ZA-1 | Releveling control Up Releveling control I/O Overload Brake open monitor Releveling Safety circuit Zones |
| Serial Interface 2 Serial Interface 2 Serial Interface 1 HPG60 Serial Interface 1 HPG60 | | 1 Shield 8 1 wire 8 1 wire | | | 20 20 20 | ZA-6 ZA-5 ZA-4 ZA-3 ZA-2 ZA-1 | Releveling control Up Releveling control I/O Overload Brake open monitor Releveling Safety circuit Zones |
| Serial Interface 2 Serial Interface 2 Serial Interface 1 HPG60 Serial Interface 1 HPG60 | | | Group bus 2 Shield Group bus 2 wire Group bus 2 wire 5 Croup bus 2 wire | tactor | 116 117 118 118 119 20 | ZA-6 ZA-5 ZA-4 ZA-3 ZA-2 ZA-1 | Releveling control Up Releveling control I/O Overload Brake open monitor Releveling Safety circuit Zones |



| U1 | Safery-Circuit U1 | Indica | tor Car position | 11A | 11A Brakept. Up |
|-----------|--------------------|--------|------------------|----------|-----------------------------|
| U2 | Safery-Circuit U2 | | | 11B | 11B Brakept.Down |
| U3 | Safery-Circuit U3 | | | 12A | 12A Level Up |
| U4 | Safery-Circuit U4 | | | 12B | 12B Level Down |
| U5 | Safery-Circuit U5 | | | 13B | 13APreendswitcher bottom |
| U6 | Safery-Circuit U6 | | | 13A | 13B Preendswitcher top |
| U7 | Safery-Circuit U7 | | | 71 | 71 Zone 1 |
| U8 | Safery-Circuit U8 | | | 72 | 72 Zone 2 |
| U9 | Safery-Circuit U9 | | | Impulse | Pulses |
| U10 | Safery-Circuit U10 | | | Fault | Fault Shaft Copy |
| U11 | Safery-Circuit U11 | Auf | Direction Up | D1 open | Door 1 Open |
| U12 | Safery-Circuit U12 | Ab | Direction Down | D1 close | Door 1 Close |
| ZR-Run | Run ZR-CPU | V0 | Speed V0 | D1 Lg | Door 1 Photocell |
| ZR-Spg | Power-ZR-CPU | V1 | Speed V1 | D1 Rev | Door 1 Reverse |
| FKR-Run | Run FKR-CPU | V2 | Speed V2 | D2 open | Door 2 Open |
| FKR-Spg | Power-FKR-CPU | V3 | Speed V3 | D2 close | Door 2 Close |
| NSG-Spg | NSG-Under voltage | Vins | Speed Vins | D2 Lg | Door 2 Photocell |
| NSG-Alarm | NSG-Alert | Vna | Speed Vnh | D2 Rev | Door 2 Reverse |
| NSG-Lad. | NSG-Accu Loading | FS | Error memory | NH | Releveling aktiv |
| NSG-Akku | NSG-Accu Drive | Fehler | Error in drive | EoT | Drivei n with open door |

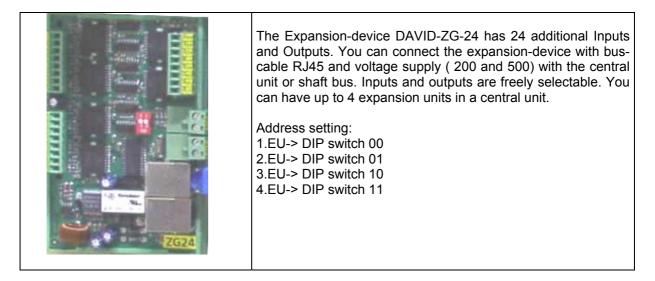
Displayanzeige mit Leuchtdioden und Stockwerksanzeige



Technical measures of the central controller unit (ZR)



2.3 Description Expansion Unit DAVID-ZG-24

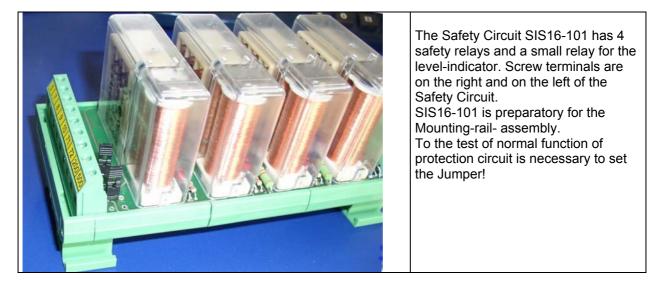


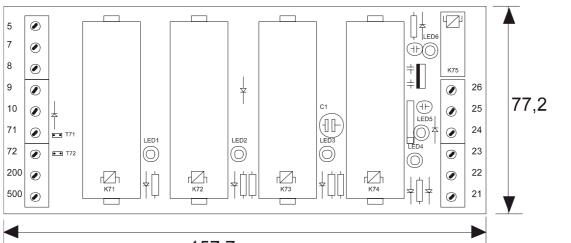
H03- Terminal Description Expansion-device DAVID-ZG-24

| Bus Connection | | | 21g | ZG0 In/Output |
|-------------------------|-----|---------------------|-----|----------------|
| RJ-45 | | | 22g | Free In/Output |
| | | | 23g | Free In/Output |
| Bus Connection | | | 24g | Free In/Output |
| RJ-45 | | | 25g | Free In/Output |
| | | Dip-Schalter Adres. | 26g | Free In/Output |
| 0V GND | 500 | | 27g | Free In/Output |
| +24V Controller Voltage | 200 | | 28g | Free In/Output |
| 0V GND | 500 | | | |
| +24V Controller Voltage | 200 | | | |
| | | | 29g | Free In/Output |
| Free In/Output | 37g | | 30g | Free In/Output |
| Free In/Output | 38g | | 31g | Free In/Output |
| Free In/Output | 39g | | 32g | Free In/Output |
| Free In/Output | 40g | DAVID-ZG-24 | 33g | Free In/Output |
| Free In/Output | 41g | Expansion-device | 34g | Free In/Output |
| Free In/Output | 42g | | 35g | Free In/Output |
| Free In/Output | 43g | | 36g | Free In/Output |
| Free In/Output | 44g | | | |



2.4 Description Safery Circuit SIS-16





| 157 | 7,7 | | | | | |
|-------------------------------|---|--|--|--|--|--|
| Relay and indicator elements: | K71= Zone relay 71 with red LED-Indicate LED1 | | | | | |
| | K72= Zone relay 72 with red LED-Indicate LED2 | | | | | |
| | K73=Control relay 73 with red LED-Indicate LED3 | | | | | |
| | K74=Start relay Entry/Releveling with red LED-Indicate LED4 | | | | | |
| | K75=level relay with red LED-Indicate LED 6 | | | | | |
| | LED Status= Colour Green, Control display LED 5 | | | | | |
| Dimensions (with bowl): | (Lenght x Bright x Hight) 157,7mm x 77,2mm x 65,0mm | | | | | |
| Weight: | Ca. 700 Gram | | | | | |
| Voltage supply: | Terminals 5,7 - 250V AC / 4A | | | | | |
| | Terminals 71,72 - +24V DC / 50mA | | | | | |
| | Terminals 200 - +24V DC / 100mA | | | | | |
| | Terminals 24 - +12V bis +24V DC / 250mA Source of emergency power | | | | | |
| | Akku | | | | | |
| | Terminals 26 - +12V to +24V DC / 250mA lever-indicator | | | | | |
| Switching cycles: | ~ 1.000.000 Switching cycles | | | | | |
| Ambient temperature: | 0 to +65 °degree | | | | | |



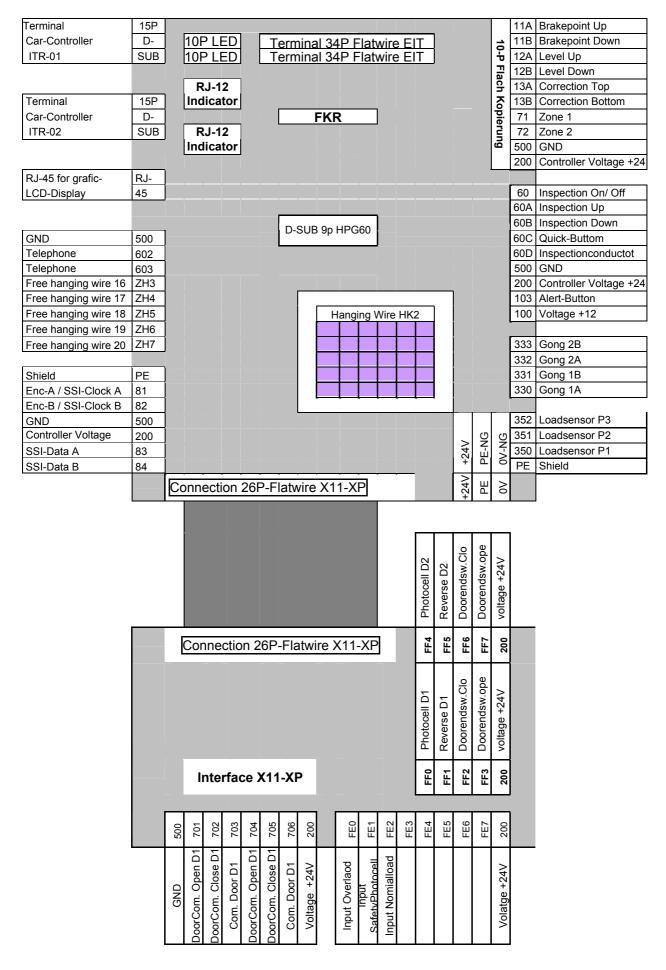
2.5 Description Car Controller FKR

| | 3 | Controller-voltage-output |
|---|----|---------------------------------------|
| | 2 | Gong-output |
| | 1 | Load-sensor-input |
| | 28 | +24V DC Inputs |
| | 1 | Encoder-inputs |
| | 16 | +24V DC Outputs |
| | 5 | Relay outputs |
| | 1 | Flashbang-Interface 10 pole |
| | 1 | Serial interface RS 232 |
| | 2 | Car-paneel-Interfaces for EIT |
| | 2 | Car-paneel-Interfaces for ITR |
| KART KART KART KART KART KART KART KART | 1 | Bus-Connection for Grafik-LCD-Display |
| | 1 | Hanging wire interface |



KW Aufzugstechnik GmbH H02- Terminal Description Car-Controller FKR

OPERATING MANUAL DAVID-2005

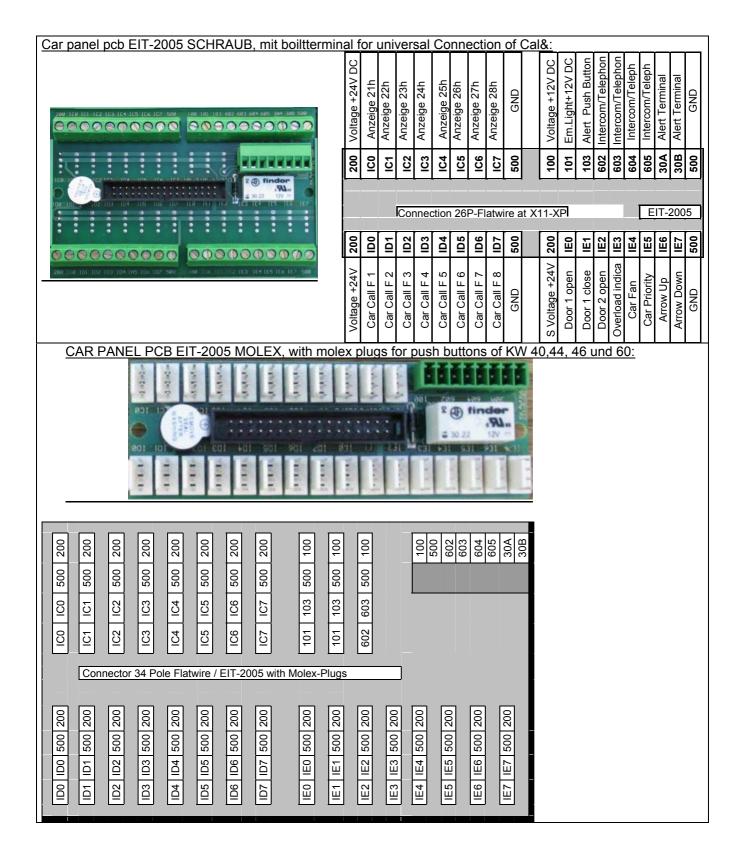




2.6 Description Car Calling EIT

The car calling EIT offers an economic alternative to car calling controller. The following point configurations can be obtained:

- 1) 8 Car calls with one car controller standart display 1 of N
- 2) 12 Car calls with one binary car controller standart display
- 3) 24 Car calls with one KW LED or LCD Display



KW Aufzugstechnik GmbH OPERATING MANUAL DAVID-2005 Option-1: Functionset to 8 Floors and use of a 1 of N-Indicator

| DIN | T | Tee | E. w. etter | | T | T | |
|-----|----------|-----|--|-----------------------------------|----------|----------|-----|
| PIN | Туре | Ter | Function | Function | Term | Туре | PIN |
| | | m | | | | | |
| 1 | EA | ID0 | – Car Call HS 01 (high aktiv) | 21h – Car Position Indicator HS01 | IC0 | EA | 2 |
| 3 | EA | ID1 | – Car Call HS 02 (high aktiv) | 22h - Car Position Indicator HS02 | IC1 | EA | 4 |
| 5 | EA | ID2 | – Car Call HS 03 (high aktiv) | 23h - Car Position Indicator HS03 | IC2 | EA | 6 |
| 7 | EA | ID3 | – Car Call HS 04 (high aktiv) | 24h - Car Position Indicator HS04 | IC3 | EA | 8 |
| 9 | EA | ID4 | – Car Call HS 05 (high aktiv) | 21h - Car Position Indicator HS05 | IC4 | EA | 10 |
| 11 | EA | ID5 | – Car Call HS 06 (high aktiv) | 22h - Car Position Indicator HS06 | IC5 | EA | 12 |
| 13 | EA | ID6 | – Car Call HS 07 (high aktiv) | 23h - Car Position Indicator HS07 | IC6 | EA | 14 |
| 15 | EA | ID7 | – Car Call HS 08 (high aktiv) | 24h - Car Position Indicator HS08 | IC7 | EA | 16 |
| 17 | EA | IE0 | S43A– Door Open Push Button D1 open | 100 +12V Voltage (Akku-puffer) | 100 | А | 18 |
| 19 | EA | IE1 | S44A– Door Close Push Button –D1 close | E101 – Emergency Light +12V DC | 101 | А | 20 |
| 21 | EA | IE2 | S43B– Door Open Push Button – D2 Open | S103 - Alarmtaster | 103 | E | 22 |
| 23 | EA | IE3 | E63 - Overload Indicator | 603 - Telephone | 602 | S | 24 |
| 25 | EA | IE4 | S150 –Car fan Button Open | 602 - Telephone | 603 | S | 26 |
| 27 | EA | IE5 | S36 – Landing Calls (opener) | 604 - ZH3 – Free Hanging Wire | 604 | S | 28 |
| 29 | EA | IE6 | Car Errow Indicator-Direction Up | 605 - ZH4 – Free Hanging Wire | 605 | S | 30 |
| 31 | EA | IE7 | Car Errow Indicator – Direction Down | Pieco Signal | - | А | 32 |
| 33 | А | 200 | 200 +24V DC Controller Voltage | GND | 500 | А | 34 |

If you need new functions, you must erase the input- and output channels IE1, IE2, IE4.

Option-2: Functionset to 12 Floors and use of codable Indicators (Binar or Gray-Code)

| PIN | Туре | Ter | Function | Function | Term | Туре | PIN |
|-----|------|-----|--|---------------------------------------|------|------|-----|
| | | m | | | | | |
| 1 | EA | ID0 | – Car Call HS 01 (high aktiv) | – Car Call HS 09 (high aktiv) | IE0 | EA | 2 |
| 3 | EA | ID1 | – Car Call HS 02 (high aktiv) | – Car Call HS 10 (high aktiv) | IE1 | EA | 4 |
| 5 | EA | ID2 | – Car Call HS 03 (high aktiv) | – Car Call HS 11 (high aktiv) | IE2 | EA | 6 |
| 7 | EA | ID3 | – Car Call HS 04 (high aktiv) | – Car Call HS 12 (high aktiv) | IE3 | EA | 8 |
| 9 | EA | ID4 | – Car Call HS 05 (high aktiv) | 21h - Car Position Indicator HS01cod. | IE4 | EA | 10 |
| 11 | EA | ID5 | – Car Call HS 06 (high aktiv) | 22h - Car Position Indicator HS02cod. | IE5 | EA | 12 |
| 13 | EA | ID6 | – Car Call HS 07 (high aktiv) | 23h - Car Position Indicator HS03cod. | IE6 | EA | 14 |
| 15 | EA | ID7 | – Car Call HS 08 (high aktiv) | 24h - Car Position Indicator HS04cod. | IE7 | EA | 16 |
| 17 | EA | IE0 | S43A - Door Open Push Button –D1 Open | 100 +12V Spannung (Akku-puffer | 100 | А | 18 |
| 19 | EA | IE1 | S44A- Door Close Push Button –D1 Close | E101 – Notlicht +12V DC | 101 | А | 20 |
| 21 | EA | IE2 | S43B- Door Open Push Button – D2 Open | S103 - Alarmtaster | 103 | E | 22 |
| 23 | EA | IE3 | E63 - Overload Indicator | 603 - Telephone | 602 | S | 24 |
| 25 | EA | IE4 | S150 - Car fan Button Open | 602 - Telephone | 603 | S | 26 |
| 27 | EA | IE5 | S36 – Landing Calls (opener) | 604 - ZH3 – Free Hanging Wire | 604 | S | 28 |
| 29 | EA | IE6 | Car Errow Indicator – Direction Up | 605 - ZH4 – Free Hanging Wire | 605 | S | 30 |
| 31 | EA | IE7 | Car Errow Indicator – Direction Down | Pieco Signal (high aktiv) | - | А | 32 |
| 33 | А | 200 | 200 +24V DC Controller Voltage | GND | 500 | А | 34 |

If you need new functions, you must erase the input- and output channels IE1, IE2, IE4.

Option-3: Functionset to 16 Floors and use of Bus-Matrix-Indicator of Type KW

| Ader | Тур | KI. | Function | Function | KI. | Тур | Ader |
|------|-----|-----|--|---------------------------------|-----|-----|------|
| 1 | EA | ID0 | – Car Call HS 01 (high aktiv) | – Car Call HS 09 (high aktiv) | IE0 | EA | 2 |
| 3 | EA | ID1 | – Car Call HS 02 (high aktiv) | – Car Call HS 10 (high aktiv) | IE1 | EA | 4 |
| 5 | EA | ID2 | – Car Call HS 03 (high aktiv) | – Car Call HS 11 (high aktiv) | IE2 | EA | 6 |
| 7 | EA | ID3 | – Car Call HS 04 (high aktiv) | – Car Call HS 12 (high aktiv) | IE3 | EA | 8 |
| 9 | EA | ID4 | – Car Call HS 05 (high aktiv) | – Car Call HS 13 (high aktiv) | IE4 | EA | 10 |
| 11 | EA | ID5 | – Car Call HS 06 (high aktiv) | – Car Call HS 14 (high aktiv) | IE5 | EA | 12 |
| 13 | EA | ID6 | – Car Call HS 07 (high aktiv) | – Car Call HS 15 (high aktiv) | IE6 | EA | 14 |
| 15 | EA | ID7 | – Car Call HS 08 (high aktiv) | – Car Call HS 16 (high aktiv) | IE7 | EA | 16 |
| 17 | EA | IE0 | S43A-Door Open PushButton–Door1 Open | 100 +12V Voltage (Akku-puffer | 100 | А | 18 |
| 19 | EA | IE1 | S44A-Door Close PushButton–Door1 Close | E101 – Emergency Light +12V DC | 101 | А | 20 |
| 21 | EA | IE2 | S43B-Door OpenPushButton–Door2 Open | S103 – Alert Push Button | 103 | E | 22 |
| 23 | EA | IE3 | E63 - Overload Indicator | 603 - Sprechanlage | 602 | S | 24 |
| 25 | EA | IE4 | S150 - Car fan Button Open | 602 - Sprechanlage | 603 | S | 26 |
| 27 | EA | IE5 | S36 – Landing Calls (opener) | 604 - ZH3 – Free Hanging Wire | 604 | S | 28 |
| 29 | EA | IE6 | Car Errow Indicator – Direction of Travel Up | 605 - ZH4 – Free Hanging Wire | 605 | S | 30 |
| 31 | EA | IE7 | Car Errow Indicator –Direction of Travel Down | Pieco Signal (high aktiv) | - | A | 32 |
| 33 | А | 200 | 200 +24V DC Controller Voltage | GND | 500 | Α | 34 |

H04- Description Car Controller ITR



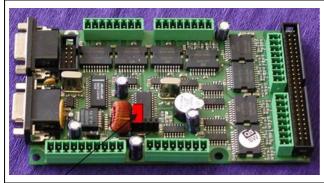
The car calling controller ITR is mounted behind of the cabin indicator board or in inspection box at description car. It is responsible for Car Calls, Door Buttoncommands....You can decide between 8-Stops-version and 16-Stops-version.

H05- Terminal Description Car Controller ITR

| Freie HK-Ader | ZH3 | | D-8 | Sub | FK | R | | | | D-S | Sub | HF | ۶Ġ | | | 21 | h | IA0 | A57- Car Pos. Indicator F1 |
|---|-----|--------------|--------------|--------------|--------------|--------|--------|--------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|--------------------------------|
| Freie HK-Ader | ZH4 | | | | | | | | | | | | | | | 22 | ?h | IA1 | A58- Car Pos. Indicator F2 |
| Freie HK-Adern | ZH5 | | | | | | | | | Fla | atwi | ire.8 | ЗP | | | 23 | 3h | IA2 | A59- Car Pos. Indicator F3 |
| 0V Steuermasse | 500 | | | | | | | | | Inc | lica | tor | | | | 24 | 1h | IA3 | A60- Car Pos. Indicator F4 |
| +24V Steuerspannung | 200 | | | | | | | | | | | | | | | 25 | 5h | IA4 | A61- Car Pos. Indicator F5 |
| Notlicht +12V DC | 101 | | | | Coc | dier | -Ju | mp | er | | | | | | | 26 | Sh | IA5 | |
| Alarmtaster | 103 | | | | | | | | | | | | | | | 27 | 'n | IA6 | |
| +12V Spannung | 100 | | | | | | | | | | | | | | | 28 | 3h | IA7 | |
| Sprechanlage | 603 | | | | | | | | | | | | | | _ | | | | |
| Sprechanlage | 602 | | | | | | | | | | | | | | | 9 | 7 | IB0 | A127- Car Arrow Up |
| 0V Steuermasse | 500 | | | | | | | | | | | | | | | 9 | 8 | IB1 | A128- Car Arrow Down |
| +24V Steuerspannung | 200 | | | | | | | | | | | | | | | | | IB2 | A18- Overload Indicatior |
| E33-Taster Tür1 Auf | IE0 | 43 | Α | | | | | | | | | | | | | | | IB3 | A45- Message Car Fan |
| E34-Taster Tür1 Zu | IE1 | 44 | А | | | | | | | | | | | | | | | IB4 | E/A03 - Evacuation Indicator |
| E35-Taster Tür2 Auf | IE2 | 43 | В | | | | | | | | | | | | | | | IB5 | E/A129- Fire Fighter Indicator |
| E36-Taster Tür2 Zu | IE3 | 44 | В | | | | ĸ | w | n | Δ\/ | חוי | -20 | າກ | 5 | | | | IB6 | E/A11 - Out Of Order |
| E16-Licht & Steuerung | IE4 | 20 | 1 | | | | IX. | | | | | -21 | .00 | 5 | | | | IB7 | E/A35 - Special Drive |
| E186-Innenvorzug | IE5 | 20 | 6A | | | | | | | IT | R | | | | | | | 500 | 0V GND |
| E24 -Tasterlüfter | IE6 | 15 | 8 | | | | | | | | | | | | | | | 200 | +24V Controller Voltage |
| E22 -Rampenfahrt | IE7 | | | | | | | | | | | | | | | | | | |
| | | 21i | 22i | 23i | 24i | 25i | 26i | 27i | 28i | 29i | 30i | 31i | 32i | 33i | 34i | 35i | 36i | | |
| | | •• | | •• | | | ••• | | ••• | ••• | | ., | ., | ., | ., | | ., | | 1 |
| Pinbelegung Flachband: Pin 1 - 200 Pin 2 - 21i Pin 3 - 500 | | Car Call F 1 | Car Call F 2 | Car Call F 3 | Car Call F 4 | Call F | Call F | Call F | Car Call F 8 | Car Call F 9 | Car Call F 10 | Car Call F 11 | Car Call F 12 | Car Call F 13 | Car Call F 14 | Car Call F 15 | Car Call F 16 | | |

You can connect to a car controller FKR up to 2 discription car calling. The second discription car calling must encording with the red code-jumper.

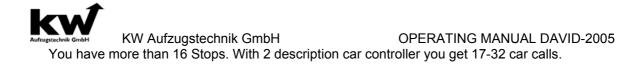
It is not importent which 15 pin connector you choose, but it's important to know what ITR has codeplug.



Attention! Connection of car calling controller and plug on of the coding plug make take place in the condition without tension!

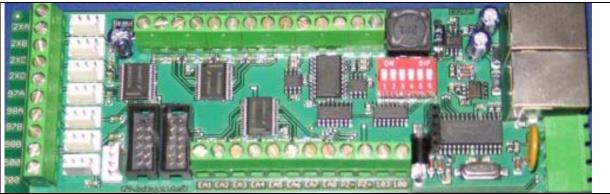
When I start a second car calling?

You have a second car calling and you don't want a parallel-wiring at the description car controller.





2.7 Description Remote Station ER-2005

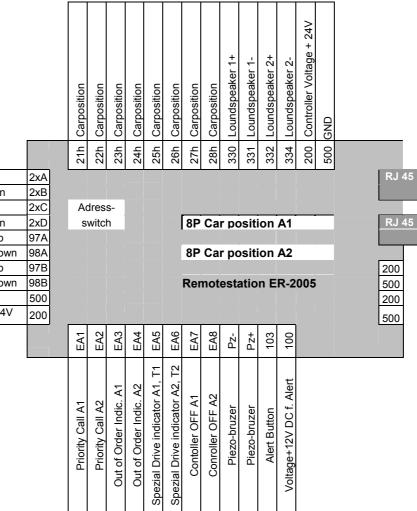


The Remote station ER-2005 has all Inputs and Outputs for duplex group (Elevator system No.1 and No.2) at one floor. There are call-inputs for Up and Down (each twice in selectivity) and two each landing priority imputs.

For group are operating according 4 outputs for displaying car position and 2 arrows per elevator. In addition, there are 2 Outputs for landing operation and special trip per elevator. You connect 2 speacers (8 ohms impedance) for the gong of the floor.

You can modulate your gong signal at the options (volume, peach, repetition and trips I which it sounds. (Car Call Up and Down, Landing Call Up and Down, Special trip...)

H07- Terminal Description Remote Station ER-2005



Landing Call D1 Up2xALanding Call D1 Down2xBLanding Call D2 Up2xCLanding Call D2 Down2xDArrow Indicator A1 Up97AArrow Indicator A1 Down98AArrow Indicator A2 Up97BArrow Indicator A2 Down98BGND500Controller Voltage +24V200



2.8 Device Description Remote Station ER-2007



The remote station ER-2007 provides 8 inputs and outputs, including 6 free inputs and outputs. There are 2 pieco-outputs for the call messaging of bus-matrix-indicator.

The remote station have all necessary call-petitions and arrow-outputs (even for selective door-controlling)

The installation of Remote Station is in the standart shaft cable channel 90x40. You combinate the Bus and Power only with blue connection cable RJ-45-Cable. The lower 7-pin plug with the call-messaging 2xA & 2xB is responsible for the Door 1, the upper plug with 2xC & 2xD for the Door 2.

The two 10 pin ribbon cable connector have the same functional assignments, such as the green plug.

The matrix-indicator with RJ-12 cable are to put in the 2 black jacks.

| | | Terminal Matrix- Indicator RJ-12 | | |
|-------------------------|-----|-------------------------------------|-----|-------------------------|
| Bus-Connection RJ-45 | | | | Bus-Connection RJ-45 |
| | | | | |
| GND | 500 | | 200 | Controller Voltage +24V |
| Landing Call Door1 Up | 2xA | | PZ2 | Pieco Door2 |
| Landing Call Door1 Down | 2xB | | 98A | Level Arrow Door2 Down |
| Level Arrow Door1 Up | 97B | Remote Station ER-2007 | 97A | Level Arrow Door2 Up |
| Level Arrow Door1 Down | 98B | | 2xD | Landing Call Door2 Down |
| Pieco Door1 | PZ1 | | 2xC | Landing call Door2 Up |
| Controller Voltage +24V | 200 | | 500 | GND |

| Terminal | Function |
|----------|--|
| 2xA | Landing Call Door 1 Up |
| 2xB | Landing Call Door 1 Down |
| 2xC | Free: for example Landing Call Door 2 Up at selective Door |
| 2xD | Free: for example Landing Call Door 2 Down at selective Door |
| 97A | Free: for example Level Arrow Door 1 Up |
| 98A | Free: for example Level Arrow Door 1 Down |
| 97B | Free: for example Level Arrow Door 2 Up |
| 98B | Free: for example Level Arrow Door 2 Down |
| 500 | GND |
| 200 | Controller Voltage +24V |

VISUALISATION

When the ER-2006/2007 connected with bus line and the controll is aktive, the green LED is blinking. In short circuit on the busline or malfunction expires or shine the LED. You can controll the Remote Station in Menu C6 Modul Monitor/ Remote Station ER01-16 and Remote Station ER 17-32.

ADRESS SETTING

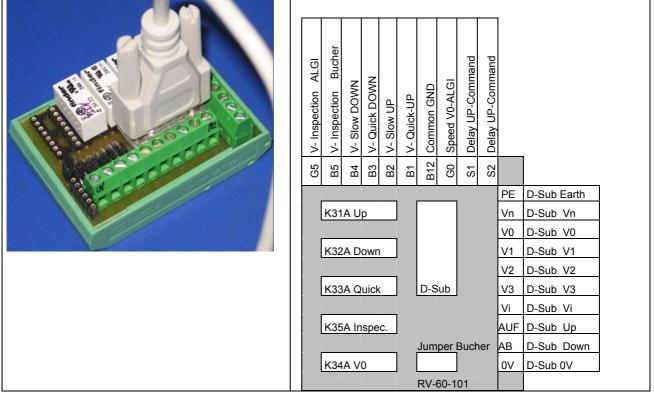
All ER-2006/2007 preset for the individual floors. The bottom floor has always marked "Floor 01". The setting of floors is no longer adress switch on the Remote Station, like ER-2005 & ER-2004, but by setting software.

The Remote Station programmed with the RJ-45 cable with the central unit. All other Remote Stations may not be connected. You can regulating the parameter "Remote Station Adress programming" in menu C6 Modul Monitor. The ER-2006/2007 gets his adress with the selection of the number of floors. (01-32). Then the ER 2006/2007 can be installed in the corresponding floor.



OPERATING MANUAL DAVID-2005

2.9 Device Description CONTROL-VALVE-Controlling RV-60-101



The assembly RV-60-101 is used to control the contral chart of the type AZRS company ALGI and LRV-DELCON the company Bucher.

The configuration is done through the insertion of the relay K34A for ALGI and set the jumper for Bucher. The connection to the cenral-unit ZR is done by a 9-pole D-Sub-cable.



OPERATING MANUAL DAVID-2005

tr fc lt 3 tv r e

The Hanging wire EHK40 is the physical connection between the central-unit-controller and the car-controller. You can use it for elevators witg 32 Floors and a height of 100m.

It is always the same pining. There is no difference in a 2 or a 32 Floor elevator system. The Hanging wire has three shield twisted pairs of wires . With this pairs, you can do the multiprocessorcommunication, the telephoneconnection, the encoder channels for the shaft encoder on the top of the car.

| White han | aina wi | re pins | with black numbers | Black Hang | ina wire pi | ns with | white numbers |
|-------------|----------|---------|-------------------------|------------|-------------|---------|------------------------------|
| Pin-Stecker | | | Function | Pin-socket | Bennenn. | Pin | Function |
| 1 | PE | | Schirm=Erde | 1 | 3 | 1 | Safety Ciruit Safety gear |
| 2 | PE | | Schirm=Erde | 5 | 3A | 2 | Safety Ciruit Inspection |
| 3 | PE | | Schirm=Erde | 9 | 4A | 3 | Safety Ciruit Re-Send |
| 4 | PE | | Schirm=Erde | 13 | 5 | 4 | Safety Ciruit Inspection |
| 5 | LT2 - P1 | 1 | Baus Channel B | 17 | 6 | 5 | Safety Ciruit Car Door |
| 9 | LT1 - P1 | 2 | Baus Channel A | 21 | 6A | 6 | Safety Ciruit Car Door |
| 6 | 80 - P2 | 3 | Encoder Channel A | 22 | L20/707 | 7 | Doorengine 230V/ 400V Door 1 |
| 10 | 81 - P2 | 4 | Encoder Channel B | 23 | 708 | 8 | Doorengine 400V – Door 1 |
| 7 | 200 - P3 | 5 | Controller Voltage +24V | 24 | 709 | 9 | Doorengine 400V – Door 1 |
| 11 | 500 - P3 | 6 | GND | 20 | 710 | 10 | Doorengine 400V – Door 2 |
| 8 | 602 - P4 | 7 | Telephone | 16 | 711 | 11 | Doorengine 400V – Door 2 |
| 12 | 603 - P4 | 8 | Telephone | 12 | 712 | 12 | Doorengine 400V – Door 2 |
| 13 | 500 | 9 | GND | 8 | L40 | 13 | Socket 230V AC Car Top 10A |
| 14 | 100 | 10 | Voltage +12V DC | 4 | L41 | 14 | Button Shaft Light |
| 15 | 101 | 11 | Emergency Light Car | 3 | L51 | 15 | Car Light 10A |
| 16 | 103 | 12 | Alert Button Car | 2 | L6 | 16 | Phase uProzessor 10A |
| 17 | 71 | 13 | Zone 1 71 | 6 | N4 | 17 | Zero |
| 18 | 72 | 14 | Zone 2 72 | 10 | 715 | 18 | Mech.Locked |
| 19 | 60D | 15 | Inspection Conductor | 14 | 716 | 19 | Mech.Locked |
| 20 | RA16 | 16 | free | 18 | PE | PE | Earth |
| 21 | RA17 | 17 | free | | | | |
| 22 | RA18 | 18 | free | | | | |
| 23 | RA19 | 19 | free | | | | |
| 24 | RA20 | 20 | free | | | | |



2.11 Description Handprogramming Unit HPG60



The handprogramming unit HPG60 is a universal In- and Output device for the controller- and invertersystem. It has 6 Buttons, a four line LCD-Display, a red LED, and also a 9-pol. RS232-Interface.

With the HPG-60 you have a look on all parameters and you can change it. Actual messages are indicate on the display about the happening in the microcontroller system. There is a memory, in which is a lot of place for 100 entries. You can give calls and make a RESET about the HPG-60, too.

There are three positions, in which you can connect the HPG-60 in order to communicate microprocessorsystem:

- 1) Cenral Unit Controller ZR (Casing)
- 2) Car Controller FKR (At the top of the car)
- 3) Car Calling Controller ITR (In the car panel)

If you have a GOLIATH-60 Frequency Inverter System, you can also have a look on the parameters and actual messages with the same HPG-60 Unit.



3.1 Menu- and Parameter structure

| A-LIFTPARAMETER | | | |
|--|--|------------------|--------------------|
| A1 Lift Type | | Werkseinstellung | Anlageneinstellung |
| А1. Туре | XXXXXXXXXX | | |
| A1.2 Lift No. | XXXXXXXXXX | | |
| A1.3 Controller No. | XXXXXXXXXX | | |
| A1.4 Place | XXXXXXXXXX | | |
| A1.5 Time/Date | xx:xx:xx xx.xx.xxxx | | |
| A1.5 a Summer/Winter | Yes, No | | |
| A1.6 Language | German, English | English | |
| A1.7 Display Line-1 | XXXXXXXXXX | | |
| A1.8 Display Line-2 | | | |
| A1.9 Software Version | D606-1.02e or higher | | |
| A1.10 Password | XXXX | | |
| A2 Steuerung | | | |
| A2.1 Type of Drive | Rope-Variable Frequency | Х | |
| | Rope-Variable Voltage | | |
| | Rope-Not Regulated | | |
| | Hydraulik-Variable Frequency | | |
| | Hydraulic-Regulated | | |
| | Hydraulic-Not Regulated | | |
| | | | |
| A2.2 Type of Controller | One Button exclusive | | |
| | One Button deadman | | |
| | Pre-selection contr. | | |
| | Two Buttons UP+DOWN | | |
| | One Button UP+DOWN | | |
| | One Button down coll. | X | |
| | One Button no coll. | | |
| | Attendand Controling | | |
| | Send-Controlling | | |
| A2.3 Group | No, Yes | No | |
| A2.4 No. Of Lifts | 2 to 8 Lifts | 2 | |
| A2.5 Group No. | 1 to 8 | 1 | |
| A3 Shaft | | | |
| A3.1 No. Of Floors | 2 to 32 | 8 | |
| A3.2 Main Floor | 1 to 32 | 2 | |
| A3.2 Main Floor 2 | No, 1 to 32 | No | |
| A3.3 Lowest Floor | 1,2,3,4,5,6,7,8 | 1 | |
| A3.4 Door Sides | 1, 2 Door Sides | 1 | |
| A3.5 Shaft Copy | R&S-Copy | | |
| | Minimum Copy | | |
| | Motor-Copy | | |
| | Absolut-Copy | | |
| | Relativ-Copy | | |
| | Standart-copy | X | |
| A2.6 nominal anad | | | |
| A3.6 nominal speed | V-nominal | 1,00 m/s | |
| B-Controllerarameter | | | |
| B1 Doorparameter B10 Doors in General | | | |
| Doorfunction | Normal Operation/ Revision-Door closed/ Door sluice | Normal Operation | |
| | Automatic no Limit SW | | |
| | Automatic w.Limit SW | X | |
| | Handdoor w. Cardoor no Limit SW | | |
| | Handdoor w. Cardoor with Limit SW | | |
| | Handdoor no Cardoor | | |
| | No Door | | |
| | Automatic + SW Open | | |
| | Automatik + SW Close | | |
| | Hand/Cargo. + SW Open | | |
| | Hand/Cargo. + SW Close | | |
| | | • | • |



| Aufzugstechnik GmbH KW Aufzugstechni | | RATING MANUAL D | |
|--|--|---|-------------|
| Door-1 End-switch | Inverted/ Not Inverted | Inverted | |
| Door-2 (Only with 2 doorsides!) | Like Door -1 | Х | |
| · · · · · · · · · · · · · · · · · · · | Automatic no Limit SW | | |
| | Automatic w.Limit SW | | |
| | Handdoor w. Cardoor no Limit SW | | |
| | | | |
| | Handdoor w. Cardoor with Limit SW | | |
| | Handdoor no Cardoor | | |
| | No Door | | |
| | Automatic + SW Open | | |
| | Automatik + SW Close | | |
| | Hand/Cargo. + SW Open | | |
| | Hand/Cargo. + SW Close | | |
| Door-2 End-switch | Inverted/ Not Inverted | Inverted | |
| | Always on / standby off | Standby off | |
| Doorengine active | | | |
| Doorengine 2 active | Always on / standby off | Standby off | |
| Shaftdoor Waiting | 0,1 to 2,0 Sek. | 0,5 sec | |
| Cardoor Waiting | 0,1 to 2,0 Sek. | 0,3 sec | |
| Later Door Opening | 0,0 to 2,0 Sek. | 0,5 sec | |
| Limited Door Opening | No, Yes 1,0 to 10 Sek. | 6 sec | |
| Door Open Timeout | No, Yes 1,0 to 60 Sek. | 13 sec | |
| Door Close Timeout | No, Yes 1,0 to 60 Sek. | 20 sec | |
| Further Travel Delay Car Call | Selektiv, Generell 1,0 bis 20 | 7 sec | |
| Further Travel Delay Landing Call | Selektiv, Generell 1,0 bis 20 | | |
| , , | , , | 9 sec | |
| F. Del. C-C mainf | Selektiv, Generell 1,0 bis 20 | 7 sec | |
| F. Del. L-C mainf | Selektiv, Generell 1,0 bis 20 | 9 sec | |
| Further-Time-Trigger | No,Yes | No | |
| Door Rev. Delay | Selektive, Generel 50 to 1000 ms | 500 ms | |
| Dooreng. Stb. off | Selektive, Generel 1 to 60 sec | 10 sec | |
| Dooringine-2 stand-by off | Selektive, Generell 1 to 60 sec | 10 sec | |
| Door standy | Open, Close 1 to 60 sec | open | |
| Door stby. Main. | Open, Close 1 to 60 sec | open | |
| | Open, close i to bo sec | Open | |
| Deen Control Increation | Vee Ne | | |
| Door Control Inspection | Yes, No | Yes | |
| Button Door op. | Individual, Together, Selective | Yes Together | |
| • | | Yes | |
| Button Door op. | Individual, Together, Selective | Yes Together | |
| Button Door op. Button Holdtime | Individual, Together, Selective No, Yes 1,0 to 600 Sec | Yes Together No | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective | Yes Together No No Together | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec | Yes Together No No Together 1 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts | Yes Together No Together 1 sec 3 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec | Yes Together No No Together 1 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts | Yes Together No Together 1 sec 3 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts | Yes Together No Together 1 sec 3 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec | Yes Together No Together 1 sec 3 | Tür-1 Tür-2 |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts | Yes Together No No Together 1 sec 3 2 sec | Tür-1 Tür-2 |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec | Yes Together No No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec | ······· |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -04 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No Existing Yes or No Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec | · |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -04 Floor -05 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -04 Floor -05 Floor -06 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -04 Floor -05 Floor -06 Floor -07 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec | ······· |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -06 Floor -07 Floor -08 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -06 Floor -07 Floor -08 Floor -09 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec | ······· |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -06 Floor -07 Floor -08 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No No Together 1 sec 3 2 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -06 Floor -07 Floor -08 Floor -09 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -01 Floor -02 Floor -03 Floor -04 Floor -05 Floor -05 Floor -07 Floor -08 Floor -09 Floor -10 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -01 Floor -02 Floor -03 Floor -04 Floor -04 Floor -05 Floor -06 Floor -07 Floor -08 Floor -09 Floor -10 Floor -11 Floor -12 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -01 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -05 Floor -06 Floor -07 Floor -08 Floor -09 Floor -10 Floor -11 Floor -12 Floor -13 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -01 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -05 Floor -06 Floor -07 Floor -07 Floor -08 Floor -10 Floor -11 Floor -12 Floor -12 Floor -13 Floor - | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -05 Floor -06 Floor -07 Floor -07 Floor -08 Floor -09 Floor -10 Floor -11 Floor -12 Floor -13 Floor - Floor -32 | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -06 Floor -07 Floor -08 Floor -09 Floor -10 Floor -11 Floor -12 Floor -13 Floor - Floor -32 B12-Safety Photocell | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -05 Floor -06 Floor -07 Floor -08 Floor -08 Floor -10 Floor -11 Floor -12 Floor -13 Floor -13 Floor - Floor -32 B12-Safety Photocell Safety Photosell | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -06 Floor -07 Floor -08 Floor -09 Floor -10 Floor -11 Floor -12 Floor -13 Floor - Floor -32 B12-Safety Photocell | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -05 Floor -06 Floor -07 Floor -08 Floor -08 Floor -10 Floor -11 Floor -12 Floor -13 Floor -13 Floor - Floor -32 B12-Safety Photocell Safety Photosell | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -03 Floor -03 Floor -04 Floor -05 Floor -05 Floor -06 Floor -07 Floor -08 Floor -09 Floor -10 Floor -11 Floor -12 Floor -12 Floor -13 Floor -32 B12-Safety Photocell Safety Photosell Photocell- Monitor | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -03 Floor -04 Floor -05 Floor -05 Floor -06 Floor -07 Floor -07 Floor -08 Floor -09 Floor -10 Floor -11 Floor -12 Floor -12 Floor -13 Floor -32 B12-Safety Photocell Safety Photosell Photocell- Monitor Ramp Travel | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 / | |
| Button Door op. Button Holdtime Button Holdtime Function Button Door Close Function Button Door Close Reaction Door Control Atemps Door Open Time Door Opening Door Closing B11 Table of Entrance Floor -01 Floor -02 Floor -03 Floor -04 Floor -04 Floor -05 Floor -06 Floor -07 Floor -07 Floor -08 Floor -07 Floor -08 Floor -09 Floor -10 Floor -11 Floor -12 Floor -12 Floor -13 Floor - Floor -32 B12-Safety Photocell Safety Photosell Photocell- Monitor Ramp Travel Door Close del. | Individual, Together, Selective No, Yes 1,0 to 600 Sec Individuel, Together Individual, Together, Selective 0,0 to 5,0 sec 1 to 10 efforts 1 to 60 sec Existing Yes or No Existing Yes or No | Yes Together No Together 1 sec 3 2 sec Tür-1 Tür-2 | |



| Aufzugstechnik GmbH KVV AUIZUGSLEC | INIK GMDH OPE | | |
|--|--|--|--|
| B13-Nudging Function | | | |
| | Off, On 1 to 180 sec | Off | |
| Nudging | OII, OII 1 to 180 sec | UI | |
| B14-Entrance Monitor | | | |
| Entrance Monitor | No,Yes | No | |
| Time a. st. Door-1 | 0,5 to 10 sec | 2 sec | |
| Time a. st. Door-2 | 0,5 to 10 sec | 2 sec | |
| Entrance Monitor | Not Inverted/Inverted | Inverted | |
| B15-Mech. Lock | | | |
| Pulse Buf. Delay | 50 ms to 2000 ms | 500 ms | |
| Lock Delay ON | 0,0 to 5,0 sec | 0 sec | |
| Lock Delay OFF | 0,0 to 9,9 sec | 0 sec | |
| Lock Handdoor | After Cardoor, Before Cardoor | After Cardoor | |
| Open after lock | 0,0 to 9,9 sec | 0 sec | |
| B16-Safty-Circuit | 0,0 10 9,9 Sec | 0 560 | |
| | No Yoo | Ne | |
| Pre-Opening Doors | No,Yes | No | |
| Early Premagn. | No,Yes | No | |
| Safety Circuit | SIS-60 / SIS-16 | SIS-16 (KW) | |
| B17 Doorparameter | | | |
| Releveling | No,Yes | No | |
| No Releveling Distance | 5 to 50mm | 10 mm | |
| Max. Releveling Distance | 10 to 250mm | 100 mm | |
| Leveling-UP | 10 to 50mm | 0 mm | |
| Leveling-DOWN | 10 to 50mm | 0 mm | |
| Time Limit | 3 to 25 sec | 20 sec | |
| Attempt Limit | 5 to 25 | 20 300 | |
| Limit at Level 1 | | No Limit | |
| | Releveling, No Releveling | | |
| Overload | Releveling, No Releveling | Releveling | |
| Fault Handling | Block, Go Down & Block | X | |
| | Only error message | | |
| finereleveling | No,Yes | No | |
| B2-Call Ontions | | | |
| B21 Car Calls | | | |
| Door Reverse Car Call | Off,On | Off | |
| Selectiv Car Calls | No,Yes | No | |
| | | | |
| Callreset/ Error | directly, 1 to 40 sec | 4 sec | |
| Callreset/ Error | directly, 1 to 40 sec | 4 sec FIT aktiv | |
| Car Call CPU | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv | EIT aktiv | |
| Car Call CPU Car Call Limit | | EIT aktiv Off | |
| Car Call CPU Car Call Limit Misure Defence | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase | EIT aktiv Off No | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On | EIT aktiv Off No Off | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase | EIT aktiv Off No | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ | EIT aktiv Off No Off Off | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On | EIT aktiv Off No Off | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ | EIT aktiv Off No Off Off | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ | EIT aktiv Off No Off Off Off | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER | EIT aktiv Off No Off Off Off ZR | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes | EIT aktiv Off No Off Off Off ZR No No | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes | EIT aktiv Off No Off Off Off ZR No | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec | EIT aktiv Off No Off Off ZR No No 5 sec | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes | EIT aktiv Off No Off Off ZR ZR No No 5 sec erase | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec | EIT aktiv Off No Off Off ZR No No 5 sec | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save | EIT aktiv Off No Off Off ZR No No 5 sec erase off | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off,1-2/1-3/1-4/1-5/1-6/1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save 1 to 30 sec | EIT aktiv Off No Off Off ZR No Xo No 5 sec erase off 20 sec | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save | EIT aktiv Off No Off Off ZR No No 5 sec erase off | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ C Off,On ZR,ER No,Yes No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft | EIT aktiv Off No Off Off ZR No No 5 sec erase off 20 sec erase | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save 1 to 30 sec erase,save | EIT aktiv Off No Off Off ZR No Xo No 5 sec erase off 20 sec | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ C Off,On ZR,ER No,Yes No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft | EIT aktiv Off No Off Off ZR No No 5 sec erase off 20 sec erase | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ C Off,On ZR,ER No,Yes No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft | EIT aktiv Off No Off Off ZR No No 5 sec erase off 20 sec erase | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call B25 Groupcontroller | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft individual | EIT aktiv Off No Off Off ZR No No 5 sec erase off 20 sec erase individual | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call B25 Groupcontroller Doorfailure ER-IN/OUT 2xC | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save individual / collective / soft individual 10 to 60 sec | EIT aktiv Off No Off Off ZR No S sec erase off 20 sec erase individual After 60 sec G01 Call Door-2 UP | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call B25 Groupcontroller Doorfailure ER-IN/OUT 2xC ER-IN/OUT 2xD | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft individual / collective / soft individual 10 to 60 sec Free programmable Groupfunction Free programmable Groupfunction | EIT aktiv Off No Off Off ZR No No 5 sec erase off 20 sec erase individual After 60 sec G01 Call Door-2 UP G02 Call Door-2 DOWN | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call B25 Groupcontroller Doorfailure ER-IN/OUT 2xC ER-IN/OUT 2xD ER-IN/OUT 97A | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft individual 10 to 60 sec Free programmable Groupfunction Free programmable Groupfunction | EIT aktiv Off No Off Off ZR No Sec erase off 20 sec erase individual After 60 sec G01 Call Door-2 UP G02 Call Door-2 DOWN G04 priority A1-3-5-7 | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call B25 Groupcontroller Doorfailure ER-IN/OUT 2xC ER-IN/OUT 2xD ER-IN/OUT 97A ER-IN/OUT 98A | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft individual 10 to 60 sec Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction | EIT aktiv Off No Off Off ZR No S sec erase off 20 sec erase individual After 60 sec G01 Call Door-2 UP G02 Call Door-2 UP G02 Call Door-2 DOWN G04 priority A1-3-5-7 G05 priority A2-4-6-8 | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call B25 Groupcontroller Doorfailure ER-IN/OUT 2xD ER-IN/OUT 97A ER-IN/OUT 97B | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ C Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft individual / collective / soft individual 10 to 60 sec Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction | EIT aktiv Off No Off Off ZR No Sec erase off 20 sec erase individual After 60 sec G01 Call Door-2 UP G02 Call Door-2 UP G02 Call Door-2 DOWN G04 priority A1-3-5-7 G05 priority A1-3-5-7 | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call B25 Groupcontroller Doorfailure ER-IN/OUT 2xD ER-IN/OUT 97A ER-IN/OUT 97B ER-IN/OUT 97B | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft individual 10 to 60 sec Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction | EIT aktiv Off No Off Off ZR No S sec erase off 20 sec erase individual After 60 sec G01 Call Door-2 UP G02 Call Door-2 UP G02 Call Door-2 DOWN G04 priority A1-3-5-7 G05 priority A2-4-6-8 | |
| Car Call CPU Car Call Limit Misure Defence Button-Buzzer Car Call Range B22-Landing Calls Door Reverse Landing Call Modul Sel. Land. Calls Erase op. Calls Save Travel B23-Car Priority Floor Calls Mail Travel B24-Landing Priority Time callinput Floor Calls Prior. Car Call B25 Groupcontroller Doorfailure ER-IN/OUT 2xD ER-IN/OUT 97A ER-IN/OUT 97B | EIT / ITR-1 aktiv / ITR-1 & ITR-2 aktiv OFF, 2 to max.floor call erase Off,On Off,On Off, 1-2/ 1-3/ 1-4/ 1-5/ 1-6/ 1-7/ C Off,On ZR,ER No,Yes No,Yes 0 to 20 sec erase, save erase, save individual / collective / soft individual / collective / soft individual 10 to 60 sec Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction Free programmable Groupfunction | EIT aktiv Off No Off Off ZR No Sec erase off 20 sec erase individual After 60 sec G01 Call Door-2 UP G02 Call Door-2 UP G02 Call Door-2 DOWN G04 priority A1-3-5-7 G05 priority A1-3-5-7 | |



| Aufzugstechnik GmbH KW Aufzugstech | hnik GmbH OPE | RATING MANUAL D | AVID-2005 |
|--|---|------------------|-----------|
| Start | Star/Delta , Softstart | Softstart | |
| S/D-Reverse Time | 0,1 to 4,0 sec | 2 sec | |
| Direction Up Delayed On | No,Yes -1 to 300 ms. | 100 ms | |
| Direction Up Delayed Off | No,Yes -1 to 2000 ms. | 400 ms | |
| Start with Door Controlling | No,Yes -1 to 3 sek. verzögert | No | |
| Inspection Speed | Slow, Quick | slow | |
| Time to go Down | 1 to 15 Minuten | 10 Min. | |
| Fault Handling | No,Yes -Abbruch & Absenken | No | |
| Travel down at Overload | No,Yes | No | |
| Signal Top of Ramp | No,Yes | Yes | |
| C. Down Delay. On | No,Yes | Yes | |
| C. Down Delay. Off | Yes, No | Yes | |
| | | | |
| 331 Hydraulic Regulated | | | |
| Start | Star/Delta , Softstart | Softstart | |
| S/D-Reverse Time | 0,1 to 4,0 Sek. | 2 sec | |
| Direction Up Delayed On | No,Yes -10 to 300 ms. | 100 ms | |
| Direction Up Delayed Off | No,Yes -10 to 900 ms. | No | |
| Start with Door Controlling | No,Yes -10 to 2000 ms. | 400 ms | |
| Start with Door Controlling | No,Yes -1 to 3 sek. Verzögert | No | |
| Inspection Speed | Slow, Quick, Vinsp | Vi | |
| Time to Go Down | 1 to 15 Minutes | 10 Min. | |
| Fault Handling | No, Interrupt, Block, Block & Go | Yes, Interrrupt | |
| Travel Down at Overload | No,Yes | No | |
| Signal Top Of Ramp | No,Yes | Yes | |
| C. Down Delay. On | No,Yes | No | |
| C. Down Delay. Off | No,Yes | No | |
| 332 Hydraulic Variable Frequency | | | |
| V0 Delayed Off | No,Yes -10 to 300 ms. | No | |
| Main Conductor Delayed Off | No,Yes -10 to 2000 ms. | 600 ms | |
| Direction Delayed Off | No,Yes -10 to 2000 ms. | 1500 ms | |
| Releveling Speed | Vn, V0 | Vn | |
| Inspektion Speed | Vo, Vinsp. | Vinsp. | |
| Time to Go Down | 1 to 15 Minutes | 15 Min. | |
| Fault Handling | No, Interrupt, Block, Block & Go | No | |
| Travel Down at Overload | No,Yes | No | |
| Blocking Top-End-switch | No,Yes | Yes | |
| Command Output | Bucher / ALGI FRHZ | Bucher | |
| 333 Rope 2 Speeds | | | |
| Motorventilation | No, Yes - 1 to 600 sec | No | |
| Direction Contactor Delayed On | No,Yes -10 to 300 ms. | 100 ms | |
| Inspection Speed | Slow, Quick | slow | |
| Reverse Time out | No,Yes, 1 to 100 ms. | No | |
| 334 Rope Variable Voltage | | | |
| Liftbus | Off, KW-Liftbus, DCP-3 | Off | |
| Mono Fan | No,Yes -1 to 600 sek. | No | |
| /0 Delayed Off | No,Yes -10 to 3000 ms. | No | |
| Direction Delayed Off | No,Yes -10 to 3000 ms. | 1900 ms | |
| Aain Constructor Delayed off | No,Yes -10 to 3000 ms. | 2500 ms | |
| Reveling Speed | Command Vn / Command V0 | Vn | |
| Fault Handling | Abbruch/Sperre-1.Stör/"-"2.Stör/"-"3.Stör | Abbruch | |
| Command Output | Standard-GOLIATH/ DIETZ-Freigabe | Standard-GOLIATH | |
| 3 35 Rope Variable Frequency | | | |
| iftbus | Off,KW-Liftbus, DCP-3 | Off | |
| /lono Fan | No,Yes -1 to 600 sek. | No | |
| /0 Delayed Off | No,Yes -10 to 3000 ms. | No | |
| Direction Delayed Off | No,Yes -10 to 3000 ms. | 1900 ms | |
| Main Conductor Delayed Off | No,Yes -10 to 3000 ms. | 2500 ms | |
| - | Command Vn / Command V0 | Vn | |
| Releveling Speed | | Abbruch | |
| Releveling Speed Fault Handling | Abbruch/Sperre-1.Stör/"-"2.Stör/"-"3.Stör | | |
| | | Standard-GOLIATH | |
| Fault Handling | Abbruch/Sperre-1.Stör/"-"2.Stör/"-"3.Stör Standard-GOLIATH/ DIETZ-Freigabe | Standard-GOLIATH | |
| ault Handling Command Output 34-Shaft Copy | | Standard-GOLIATH | |
| ault Handling Command Output | | Standard-GOLIATH | |

DAVID-V125-E

29.05.2009



| Aufzugstechnik GmbH KVV Aufzugstechnik | GmbH OPI | ERATING MANUAL D | AVID-2005 |
|--|---|---|-----------|
| B42 Relativ Copy | | | |
| Pulse Buffer Delay | 2 to 50 ms | 2 ms | |
| Correction Travel to | After call/automatic | After call | |
| 2nd Prel. SW bot | No,Yes | No | |
| 2nd Prel. SW top | No,Yes | No | |
| | , | No | |
| Short travels | No/1 short tr./2 short tr. | NO | |
| If 1 Short-drive-> Short-drive-1 between | 1<->2, 2<->3, 3<->4 , | | |
| If 2 Short-drive-> Short-drive-2 between | 1<->2, 2<->3, 3<->4 , | | |
| Distance Prel. SW-ZSW | To Measure in mm | 1000 mm | |
| Decel. Spd V0=>0 Travel up | Distance in mm | 5 mm | |
| Decel. Spd V0=>0 Travel down | Distance in mm | 5 mm | |
| Decel. Spd V1 Travel up | Distance in mm | 500 mm | |
| Decel. Spd V1 Travel down | Distance in mm | 500 mm | |
| Decel. Spd V2 Travel up | Distance in mm | 1000 mm | |
| Decel. Spd V2 Travel down | Distance in mm | 1000 mm | |
| Decel. Spd V3 Travel up | Distance in mm | 1500 mm | |
| Decel. Spd V3 Travel down | Distance in mm | 1500 mm | |
| Learn Drive | V1, V2, V3 execute | V1 | |
| Encoder Termin. | At ZR/FKR | ZR | |
| Lern Drive Activate | No,Yes | No | |
| Switch Hysteres Overlapping | Xxx mm | 0 mm | |
| Level, Floor-01 lev, Value | Bündigwert: 000,000 m | 000,000 m | |
| Level. Floor-32 lev. Value | Bündigwert: xxx,xxx m | xxx,xxx m | |
| B43 Absolut Copy | | | |
| | Sehmered USD / Weehenderff | Sebmersel USD | |
| Distance-system | Schmersal-USP / Wachendorff | Schmersal-USP | |
| Floorswitches | no/ Vorend+Zone | No Floorswitches | |
| Short travels | No/1 short tr./2 short tr. | No | |
| If 1 Short-drive-> Short-drive-1 between | 1<->2, 2<->3, 3<->4 , | | |
| If 2 Short-drive-> Short-drive-2 between | 1<->2, 2<->3, 3<->4 , | | |
| Decel. Spd V0=>0 Travel up | Distance in mm | 5 mm | |
| Decel. Spd V0=>0 Travel down | Distance in mm | 5 mm | |
| Decel. Spd V1 Travel up | Distance in mm | 500 mm | |
| Decel. Spd V1 Travel down | Distance in mm | 500 mm | |
| Decel. Spd V2 Travel up | Distance in mm | 1000 mm | |
| Decel. Spd V2 Travel down | Distance in mm | 1000 mm | |
| Decel. Spd V3 Travel up | Distance in mm | 1500 mm | |
| Decel. Spd V3 Travel down | Distance in mm | 1500 mm | |
| Countdirection | Negativ / positiv | Negativ | |
| Learn Drive | V1, V2, V3 execute | V1 | |
| Learn Drive activate | No,Yes | No | |
| Synchronisation Floor-1 | No.Yes | No | |
| Level Mode | Floor level// floor distance | | |
| Level. Floor-01 lev. Value | Bündigwert: 000,000 m | 000,000 m | |
| Level. Floor-32 lev. Value | Bündigwert: xxx,xxx m | xxx,xxx m | |
| B44 Motor Copy | | ^^^, [,] [,] [,] [,] , [,] | |
| | 2 his 50 mg | 2 | |
| Pulse Buf. Delay | 2 bis 50 ms | 2 ms | |
| Correct. Travel | After call / automatic | After call | |
| 2nd Prel. SW bot | No,Yes | No | |
| 2nd Prel. SW top | No,Yes | No | |
| Short travels | No/1 short tr./2 short tr. | No | |
| If 1 Short-drive-> Short-drive-1 between | 1<->2, 2<->3, 3<->4 , | | |
| If 2 Short-drive-> Short-drive-2 between | 1<->2, 2<->3, 3<->4 , | | |
| Distance Prel. SW-ZSW | To Measure in mm | 1000 mm | |
| Decel. Spd V0=>0 Travel up | Distance in mm | 5 mm | |
| Decel. Spd V0=>0 Travel down | Distance in mm | 5 mm | |
| Decel. Spd V1 Travel up | Distance in mm | 500 mm | |
| Decel. Spd V1 Travel down | Distance in mm | 500 mm | |
| Decel. Spd V2 Travel up | Distance in mm | 1000 mm | |
| Decel. Spd V2 Travel down | Distance in mm | 1000 mm | |
| Decel. Spd V3 Travel up | Distance in mm | 1500 mm | |
| Decel. Spd V3 Travel down | Distance in mm | 1500 mm | |
| Learn Drive | | 1000 11111 | |
| | V1 V2 V3 execute | V/1 | |
| | V1, V2, V3 execute | V1 ZB | |
| Encoder Termin. Learn Drive activate | V1, V2, V3 execute At ZR/FKR No,Yes | V1 ZR No | |



| Swiching-hysterese | | |
|---------------------------------------|--|-------------------------|
| Level. Floor-01 lev. Value | Bündigwert: 000,000 m | 000,000 m |
| Level. Floor-32 lev. Value | Bündigwert: xxx,xxx m | xxx,xxx m |
| B45 Minimum Copy | | |
| Pulse Buf. Delay | 2 to 50 ms | 50 ms |
| | | |
| Correct. Travel | After call / automatic | After call |
| B46 R&S copy | | |
| Pulse Buf. Delay | 2 to 50 ms | 50 ms |
| Correct. Travel | After call / automatic | After call |
| | | |
| B5-Indicate | | |
| B501 Car Indicate | | |
| Cabine | Gray / 1 of N / Binär/ 7-Seg / free | 1 of N |
| Main-CPU | Gray / 1 of N / Binär/ 7-Seg / free | 1 of N |
| Floor-CPU | Gray-Code / 1 of N / Binär | 1 of N |
| Code 7-Segment | Setup for every Floor | U,E,1,2,3,4,5,6,7, |
| Code select | Setup for every Floor | 0000 0000 b |
| Secial Mode Inspect./ manua : ON | No,Yes | Yes |
| Secial Mode error case : ON | No,Yes | Yes |
| Secial Mode spezial trv : ON | No,Yes | Yes |
| 3502 Car Arrow | | |
| Description | Only direction | |
| · | Direction+ move on | |
| | Only move on | X |
| M-Arrow-OFF | No,Yes 1 to 60 sec | No |
| M-A.Door close | No,Yes | Yes |
| B503 Floor Arrow | ····· | |
| Arrows | No,Yes – ZR , ER, EAT | No |
| ZR: Description | Only direction | |
| | Direction+ move on | |
| | Only move on | x |
| ZR:M-Arrow-Off | No,Yes 1 to 60 sec | No |
| ER: Description | Only direction | X |
| ER. Beschption | Direction+ move on | ^ |
| | Only move on | |
| ER: ER:M-Arrow-Off | No,Yes 1 to 60 sec | Νο |
| M-A. Door close | No,Yes | Yes |
| B504 Gong At The Car | 10,165 | 165 |
| Gongfunction | No,Yes | No |
| Car Call UP | No,one ring,double ring,trible ring | No |
| Car Call DOWN | No,one ring,double ring,trible ring | No |
| Floor Call UP | No,one ring,double ring,trible ring | One ring |
| Floor Call DOWN | No,one ring,double ring,trible ring | Double ring |
| Priority Call UP | No,one ring,double ring,trible ring | No |
| Priority Call DOWN | No,one ring,double ring,trible ring | No |
| Fire Fighter Tr. | No,one ring,double ring,trible ring | No |
| Fire Fighter Tr. Special Travel | No,one ring,double ring,trible ring | No |
| | 1 to 15 | |
| Gongfunction Volume Gongfunction Tone | 1 to 15 | 7 |
| B505 Gongfunction | | |
| e e e e e e e e e e e e e e e e e e e | No,Yes | No |
| Gongfunction | No, res No,one ring,double ring,trible ring | No |
| Car Call UP | No,one ring,double ring,trible ring | No |
| Car Call DOWN | No,one ring,double ring,trible ring | |
| Floor Call UP Floorcall DOWN | No,one ring,double ring,trible ring | One ring Double ring |
| | No,one ring,double ring,trible ring | No |
| Priority Call UP Priority Call DOWN | No,one ring,double ring,trible ring | No |
| Priority Call DOWN | No,one ring,double ring,trible ring | No |
| Fire Fighter TR. | No,one ring,double ring,trible ring | |
| Special Travel | | No |
| Gongfunction Volume | 1 to 15 | 7 |
| Gongfunction Tone | 1 to 15 | 7 |
| Gongimpuls | Short puls, 1sec, 2 sec | Short puls |
| B506 LED-Matrix | | |



| Aufzugstechnik GmbH KW Aufzugstech | | RATING MANUAL D | |
|--|--|-------------------|-----------|
| Car + Floor | Setup for every Floor | U,E,1,2,3,4,5, | AVID-2005 |
| Car Display Errow | No,Yes,Scroll | Scroll | |
| Kabine Segmente | 2 / 3 Ziffern | 3 Ziffern | |
| Text ÜBERLAST laufend | No,Yes | No | |
| Text EVAKUIERUNG laufend | No,Yes | No | |
| Text FEUERWEHR laufend | No,Yes | No | |
| | No,Yes | No | |
| Text SONDERFAHRT laufend | 110,100 | 110 | |
| Text AUSSER BETRIEB laufend | No,Yes | No | |
| Etagenrechner Pfeilanzeige | No,Yes,Scroll | Scroll | |
| Etagenrechner Segmente | 2 / 3 Number | 2 Number | |
| Etagenrechner Leuchtfeld | Off / out of order / spezial travel | No | |
| Text ÜBERLAST laufend | No,Yes | No | |
| Text EVAKUIERUNG laufend | No,Yes | No | |
| Text FEUERWEHR laufend | No,Yes | No | |
| Text SONDERFAHRT laufend | No,Yes | No | |
| Text AUSSER BETRIEB laufend | No,Yes | No | |
| Main Unit | 1 to 32 | 1 to 32 | |
| B6-Functions | | | |
| B600 Monitorfunctions | | | |
| Cont. Monitor Start | OFF, On 500 to 4000 ms | on | |
| Cont. Monitor Trav. | On,Off | on | |
| Cont. Moninot Insp. | On,Off | on | |
| Carlight Monitor | On,Off | on | |
| Starttime Monitor | 1 to 60 sec | 20 sec | |
| Journey Time Monitor | 1 to 60 sec | 40 sec | |
| Decelation Time Monitor | 1 to 60 sec | 20 sec | |
| Stop Time Monitor | 1 to 60 sec | 10 sec | |
| Fault Handling | Stop+ block | Bei Seil | |
| <u> </u> | Stopp+ delete Calls | 201 0011 | |
| | Go down | | |
| | Go down+ block | Bei Hydraulik | |
| Brake-Open Monitor | Off,On | Aus | |
| Brake-Shoe Monitor | Off.On | Aus | |
| | Stop+ delete Calls | X | |
| | Stopp+ Block | ~ | |
| Brake-Shoe Mo. Input | Not inverted/inverted | inverted | |
| Brake-Shoe Mo. Delay | 0 to 6000 ms | 2000 ms | |
| Switch-cabinet T-Max | No, Yes – 30 to 99°C | 60 °C | |
| Switch-cabinet T-Min | No, Yes - 0 to 25°C | 3 °C | |
| PTC-Motortemp. | Off, imput 1, imput 2, 1 + 2 | Imput 1 | |
| DSK-Impulse | Off,On | On | |
| B601 Inspection Travel | | | |
| Restart locking | No,Yes | No | |
| Restart locking Door | No,Yes | No | |
| Speed Button | No,Yes | Yes | |
| B602 Emergency Unit | | | |
| Alert Push Button Delay | 0 to 5 Sec | 1 sec | |
| B603 Car Fan | | | |
| Start Of Fan | Push Button, Travel-Start | Travel | |
| Fan Delay | 0 to 600 sec | 30 sec | |
| B604 Load Mearement | | | |
| Overload imput | Not inverted/inverted | Not inverted | |
| Load Measurem. Loadsensor FKR | No,Yes | No | |
| Overload | 120% | 120% | |
| Full Load | 100% | 100% | |
| Half Load | 50% | 50% | |
| Under Load | 10% | 10% | |
| Save Full Load | No,Yes | 10% No | |
| Save Full Load Save Zero Load | No,Yes | No | |
| | | No | |
| Underload evaluation | No,Yes / 1 / 2 / 3 / 4 Calls | No | |
| Volllastauswertung | No,Yes | | |
| | No Yos | Vaa | |
| | | | |
| B605 Standby Travel Standby Travel Standby Trvi. 1 Floor | No, res No, Yes Next Floor, Floor1 to max. | Yes Next Floor | |



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|--|--|---|------------|
| Standby Trvl. 2 Floor | Next Floor, Floor1 to max. | Next Floor | |
| Standby Travel Door | Open/close | open | |
| B606 Parking Travel | | | |
| Parking Travel | No, Yes | No | |
| Parking Level | Floor 1 to max. Floor | Etage 2 | |
| Start Parking Travel | 1 to 15 Min. | 1 min | |
| Door | Open, Close | Open | |
| B607 Floor Blocking | | | |
| | | Νο | |
| Floor Blocking | Input of a blocked Floors | | |
| Dynam. Blocking | No, only carcalls | Na | |
| B608 Car Light | only floorcalls, carcalls+floorcalls | No | |
| Automatik off | No,Yes | Νο | |
| Delay | 1 to 600 sec | 60 sec | |
| B609 Emergency Power service | | 00 300 | |
| Emergency Power Service | No/yes, power generator, accupower | No | |
| Emergency Power Service floor 1 | Next floor, 1 to 32 | 1 | |
| Entrance Open | 1, 2, 1+2 | 1 | 1 |
| Follow-Circuit | No,Yes | No | 1 |
| Piezo Buzzer | Off / on | off | 1 |
| Follow Circuit Deadtime | 10 to 360 sec | 360 sec | 1 |
| B610 Emergency Fire Service | | | |
| Fire Evacuation Service | No, Yes-1, Yes-2, Yes-3, dynamic | No | |
| 1. Priority | 1 to max. | 2 | |
| Entrance open | 1, 2, 1+2 | 1 | |
| 2. Priority | 1 to max. | 2 | |
| Entrance open | 1, 2, 1+2 | 1 | |
| 3. Priority | 1 to max. | 3 | |
| Entrance open | 1, 2, 1+2 | 1 | |
| Piezo Buzzer | Off , on | off | |
| Em. Fire Serv. Input | Not inverted/ inverted | Not inverted | |
| Em. Fire Serv. Schweitzer Vers. | No,Yes | No | |
| B611 Fire Fighter service | | | |
| Firefighter Tr. | No,Yes | No | |
| 1. Priority | 1 to max. | 2 | |
| Entrance open | 1, 2, 1+2 | 1 | |
| 2. Priority | 1 to max. | 2 | |
| Entrance open | 1, 2, 1+2 | 1 | |
| 3. Priority | 1 to max. | 2 | |
| Entrance open | 1, 2, 1+2 | 1 | |
| Firefighter Tr. Input | Not inverted/ inverted | Not inverted | |
| Firefighter Tr. | Deutsch / Englisch / Australisch / EN 81- | Deutsch | |
| B612 Rescue Travel | | | |
| Rescue Travel | No,Yes | No | |
| Eleas 4 | | | 1 |
| Floor 1 | 1 to max. | 1 | |
| Opendoorside | 1, 2, 1+2 | 1 | |
| Opendoorside Send Floor | 1, 2, 1+2 1 bis max. | 1 2 | |
| Opendoorside Send Floor Opendoorside | 1, 2, 1+2 1 bis max. 1, 2, 1+2 | 1 2 1 | |
| Opendoorside Send Floor Opendoorside resendfloor | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. | 1 2 1 2 | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime | 1, 2, 1+2 1 bis max. 1, 2, 1+2 | 1 2 1 | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec | 1 2 1 2 10 | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. | 1 2 1 2 | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec No,Yes | 1 2 1 2 10 No | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping Main Floor | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec | 1 2 1 2 10 | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping Main Floor B615 Time relay | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec No,Yes No/Up/Down/Up+Down | 1 2 1 2 10 No No | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping Main Floor B615 Time relay Time Relay-1 | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec No,Yes No/Up/Down/Up+Down Off/switch-on delay/off delay/off puls | 1 2 1 2 10 No No Off | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping Main Floor B615 Time relay Time Relay-1 Delaytime | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec No,Yes No/Up/Down/Up+Down Off/switch-on delay/off delay/off puls 0,5 to 300 sec | 1 2 1 2 10 No No Off 0,5 | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping Main Floor B615 Time relay Time Relay-1 | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec No,Yes No/Up/Down/Up+Down Off/switch-on delay/off delay/off puls 0,5 to 300 sec | 1 2 1 2 10 No No Off | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping Main Floor B615 Time relay Time Relay-1 Delaytime Pulstime Time Relay-2 | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec No,Yes No/Up/Down/Up+Down Off/switch-on delay/off delay/off puls 0,5 to 300 sec 0,5 to 300 sec Off/switch-on delay/off delay/off puls Off/switch-on delay/off delay/off puls | 1 2 1 2 10 No No Off 0,5 0,5 Off | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping Main Floor B615 Time relay Time Relay-1 Delaytime Pulstime | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec No,Yes No/Up/Down/Up+Down Off/switch-on delay/off delay/off puls 0,5 to 300 sec | 1 2 1 2 10 No No Off 0,5 0,5 | |
| Opendoorside Send Floor Opendoorside resendfloor Dleaytime B613 Attendent Trav. Attandent Travel B614 Hotel Stopping Main Floor B615 Time relay Time Relay-1 Delaytime Pulstime Time Relay-2 Delaytime | 1, 2, 1+2 1 bis max. 1, 2, 1+2 0, 1 to max. 10 to 300 sec No,Yes 0 0 0 0 0 10 to 300 sec 0 | 1 2 1 2 10 No No Off 0,5 0,5 Off 0,5 | |



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|-----------------------------------|---|---------------|--------------------|-----------------------------|
| Stopt-1 Timer-1 to 10 | 00:00 Uhr | | | |
| Start-2 Timer-1 to 10 | 00:00 Uhr | | | to |
| Stop-2 Timer-1 to 10 | 00:00 Uhr | | | |
| Day Timer-1 to 10 | Mo Tu We Th Sa So | | | |
| B616 Elevator Check | | | | |
| Interval | Off/ev. Week/ ev 2 weeks | | off | |
| Weekday | MO DI MI DO FR SA SO | | | |
| Start time | xx : xx Uhr | | | |
| Action | Testtravel/alertbuttontest | | Testtravel | |
| Reaction | Only message//m. and vblo | ck | | |
| Floorblocking | No notice/notice blocked fl fixed Blocking | oor/ only | | |
| Result | Check is o.k./ x failure | | | |
| B617 Bolt | | | | |
| Bolt | Off/Static/mobil | atic/mobil of | | |
| Floor Static | Stop | Stop | | |
| Bolt Mobil | Stop | Stop | | |
| Bolt retrieving | No,Yes | No,Yes | | |
| Bolt Wake Lowering | ms | 1000 ms | | |
| Bolt Pressing Wake | ms | 4000 ms | | |
| Bolt sinking trip | No,Yes | | Yes | |
| B618 Codelock Calls | | | | |
| Codelock calls floor | No, HS 01 HS Max | | No | |
| Codeeingabe Etage 01 bis Max. | 4 stelliger Zahlencode | | | |
| B7 Input/ Output | | | | |
| B73 I/O | | | | |
| Frame-30: 0KS- 4HS Hydraulics | Frame -36: 0KS- 4HS Seil-U | Frame -42 | :: 0KS- 4HS Seil-F | |
| Frame -31: 1KS- 7HS Hydraulics | Frame -37: 1KS- 7HS Seil-U | Frame -43 | : 1KS- 7HS Seil-F4 | Frame -44: 1KS- 7HS Seil-FA |
| Frame -32: 1KS- ER Hydraulics | Frame -38: 1KS- ER Seil-U | Frame -45 | : 1KS- ER Seil-F4 | Frame -46: 1KS- ER Seil-FA |
| Frame -33: 2KS- 6HS Hydraulics | Frame -39: 2KS- 6HS Seil-U | Frame -47 | : 2KS- 6HS Seil-F4 | Frame -48: 2KS- 6HS Seil-FA |
| Frame -34: 2KS- ER Hydraulics | Frame -40: 2KS- ER Seil-U | Frame -49 | : 2KS- ER Seil-F4 | Frame -50: 2KS- ER Seil-FA |
| Frame -35: GR - ER Hydraulics | Frame -41: GR - ER Seil-U | Frame -51 | : GR - ER Seil-F4 | Frame -52: GR - ER Seil-FA |

| C-Diagnosis | | | | |
|----------------------------------|--|-------------------|----------------------------|----------------------|
| C0-Controller Reset | | | | |
| Reset | Yes,No | | | |
| C1-Give Calls | | | | |
| C10-Give Calls | Car Calls | | | |
| C11-Floor Calls | Input of Floor Calls | | | |
| C12-Random Car Calls | Off/ On | | Off | |
| | Off after :0,5 to 48,0 | hours | 8,0 hours | |
| C13-Random Floor Calls | Off, On | | Off | |
| | Off after :0,5 to 48,0 | hours | 8,0 hours | |
| C2-In/Output Signals | | | | |
| All In/Outputs ZR,FKR,ITR,ER | - = no Signal / * = +24 | 4V Signal | Exxx = Input Signall | Axx= Output Signal |
| C3-Event/Fault Log | | | | |
| C30 Event/Fault Log | | Fault Count | | |
| C31 Logposition | | Fault Position > | (XX | |
| | Number of Fault | | Errowtext | |
| | Uhrzeit xx:xx:xx | Datu | um xx.xx.xxxx | |
| C4-INSECTOR | | | | |
| C40 Run Time Test | All runn | ing times are se | et on 1.0 seconds for the | next trip: |
| C41 Buffer Trip | With the resend drive speed can be driven downward without delay 13B | | | |
| C42 Seat Sample | | | an be driven upward v | · · · · · · · · · |
| C43 Catch Sample | | | ircuit protection with the | • |
| C44 Driving Abillity | | | examination with MRL pr | |
| C45 Break Test | For MRL with electrical manual brake operation | | | |
| C46 Remote Trigger | Start up the function remote trigger | | | |
| C47 Reset Remote Trigger | Start up function resets remote trigger | | | |
| C48 Remote Trigger Counterweight | Start up the function remote trigger Counterweight | | | |
| C49 Reset Remote Tri. | Start up the function reset remote trigger | | | |
| C410 Shaft-Endswitch Top | Limit switch trip | UP with reducti | on of the V. but over driv | ving concisely Top |
| C411 Shaft-Endswitch Bottom | Limit switch trip Do | wn with reduction | on of the V. but over driv | ing concisely Bottom |



| kut | | | | | |
|--|-----------------------|--|--|--|--|
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| C412 Temperature-Casing-Test | Lower th | e temperature minimum trigger level to immediate reasing | | | |
| C413 Motor-PTC-Test | | | | | |
| C414 DSK-Encoder-Test | | | | | |
| C5-Compactness Cotrol | | | | | |
| Expenditure of the current d | riving cab hoising de | oth in mm; Consise become with+ or- at over or under drive | | | |
| C6-modul Monitor | | | | | |
| Shaftbus 1 to 16 | | | | | |
| Shaftbus 17 to 32 | | | | | |
| DSC-Pulses | | | | | |
| Revision Number | | | | | |
| ER-Adress prog. Adress | | | | | |
| C7 –Assembly Trip | | | | | |
| Ignoring the SiKr entrances U3 to U12 resent option at assembly option | | | | | |

| D-Informations | |
|-------------------------|--|
| D1-In/Output | |
| D2-Trip Counter | |
| All Trips | |
| Reset Tripcounter | |
| Tripcounter UP | |
| Tripcounter DOWN | |
| Reset Tripcounter | |
| Floorcounter Floor 1 | |
| Floorcounter Floor max. | |
| Reset Floorcounter | |
| D3-Run-Time Counter | |
| Mainpowercounter | |
| Travel Time | |
| Reset Travel Time | |
| Reset Counter | |
| D4-Doormove Counter | |
| Doorside 1 | |
| Reset Doormove- Counter | |
| Disp. Doormaintan | Expenditure of message over A126 maintenance counter doors |



4. I unction Description

4.1 General working with the HPG 60

The Hand-held Programming Unit HPG-60 is the universal programming tool for the entire control system. It is equipped with 6 keys, a four-lined LCD-display, one red LED, and a 9-pole RS232-Interface. Through the HPG-60, all parameters can be displayed and changed. Current actions of the control system are displayed though permanent status indicators. The accumulated fault events can be read out from the fault memory. Inquiries can also be initiated through this unit. The HPG-60 can communicate with the Microprocessor System in three places:

- 1) through the CPU ZR ZR
- 2) through the Car-Mounted Control Unit FKR
- 3) through the Car Panel ITR

(located in the switch cabinet) (located on top of the cabin) (located in the cabin)

The serial cable which is supplied with the unit, has to be connected with the 9-pole interface socket of the HPG-60, and the corresponding socket of the CPU, the FKR, or the ITR. If the access authorization of the HPG-60 is accepted by the CPU, the display will show "A1 Anlagedaten ".

The six keys are separated in two groups. The four red keys are working as a two-axis control, i.e. the upper and the lower key are used to scroll through the menu. There are eight main menus, between which you can change by using the keys "left arrow" and "right arrow". The right and the left red buttons will select the individual parameters. The values of the parameters appear on the right side.

The yellow keys are used if parameters are to be changed. The upper yellow key will increase the parameter value, through the lower yellow key the parameter value is reduced. After adjustment, the parameter value will flash on the display. The right, red key (ENTER) must be pressed to store the new setting. In case that the new value is to be disregarded, the left red key must be pressed ESCAPE). The current key allocation is displayed on the fourth line of the display. Parameters can only be changed in standstill condition, and only if no command has been entered. Mistakes are indicated by flashing of the display.

The display is composed as follows:

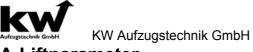
| 1. Line | MENU | e.g. | B10 Door General | |
|---------|------------------------------|------|---------------------------------------|--|
| 2. Line | Menu Element Parameter Value | e.g. | Shaft Door Bounce Suppression100 ms | |
| 3. Line | ine Status Mode | | "Regular Operation" | |
| 4. Line | Error Messages | | Error 41: Operating Time Surveillance | |

4.2 Serial Interface 1 and 2

The serial interface 1 used to connect the Handprogramming Unit HPG60, and to connect a PC with parametersoftware or Flash software.

The second serial interface is reserved for the DFÜ. The software supports the protocol-files of the Reimann company. You have the access to all data parameters groups A to D.

Optional there two different modems for connections over telephone or Internet TCP/IP.



OPERATING MANUAL DAVID-2005

A-Liftparameter A1- Lift type

PARAMETER: A1.1 TYPE

There is a place of 20 characters to put in the name of the type or the company. The whole characterset is 95 characters.

PARAMETER: A1.2 LIFT NUMBER

There is a place of 20 characters to put in the lift number. The whole character-set is 95 characters.

PARAMETER: A1.3 CONTROLLER NUMBER

There is a place of 20 characters to put in the controller-number. The whole character-set is 95 characters.

PARAMETER: A1.4 PLACE

There is a place of 20 characters to put in the name of the place. The whole character-set is 95 characters.

PARAMETER: A1.5 TIME/DATE

You must use the form xx:xx:xx = time & yy.yy.yyyy = Date to put in the time and the date.

PARAMETER: A1.6 LANGUAGE

There are two languages, which you can choose **German and Englisch**. The standart is German.

PARAMETER: A1.7 & A1.8 - DISPLAYLINE 1 AND 2

There is a place of 20 characters in every line to put in the name of the Building, or the company. These two lines are visible at the start on the HPG-60. The whole character-set is 95 characters.

PARAMETER: A1.9 SOFTWARE VERSION

In this menu the software version will be shown.

A2- Controller

PARAMETER: A2.1 TYPE OF DRIVE

In this parameter, you have to choose the type of drive:

- Hydraulic-Not regulated
- Hydraulic- regulated
- Hydraulic-Variable Frequency
- Rope- 2 Speeds
- Rope- Variable Voltage
- Rope- Variable Frequency



PARAMETER: A2.2 TYPE OF CONTROLLER

In this parameter, you have to choose the type of controller:

- Send-Controlling
- Attendant-Controlling
- No Collecting
- One Button Down
- One Button Up & Down
- Two Buttons
- Pre-Selection-Controlling

PARAMETER: A2.3 GROUP

In this parameter, you can activate the Group-drive.

PARAMETER: A2.4 No. OF LIFTS

In this parameter, you can put in the numbers of the lifts in the group. The maximum number is 8.

PARAMETER: A2.5 GROUP No.

Each lift in the group has ist own number. You can give the lift a number between 1 and 8.

A3- Shaft

PARAMETER: A3.1 No. OF FLOORS

In this parameter, you can put in the value, how many floors the elevator has. The maximum is eight floors.

PARAMETER: A3.2 MAIN FLOOR

In this parameter, you can put in the value, of the main floor.

PARAMETER: A3.3 LOWEST FLOOR

If you have a groupe with a different number of floors, you must put in the number of the floor, which is the lowest floor of the elevator.

PARAMETER: A3.4 DOOR SIDES

In this parameter, you can put in the value, how many door sides the elevator has. The maximum is two door sides.

PARAMETER: A3.5 SHAFT-COPY

In this parameter, you have to choose the type of shaft-copies:

- Standart-Copy
- Relativ-Copy
- Absolut-Copy
- Motor-Copy
- Minimum-Copy
- R&S-Copy

PARAMETER: A3.6 Nominal Speed

In this parameter you can put in your nominal speed.



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 1.0
 Description of the in- and outputchannels of the door-function

| Terminal | Locatio | Hard- | Function |
|--|------------------|---------------------|--|
| mark | n | ware | |
| Free choice of the Relay Output | FKR, or ZR | Relay Output | Door command line Door 1 Open - This output is used to control the door scheme to drive the car or by 400V AC drives to control the reversing contactor K401. If K402 is on, so is K401 software locked. |
| Free choice | FKR, | Relay | Door command line Door 1 Close- This output is used to control the door |
| of the Relay Output | or ZR | Output | scheme to drive the car or by 400V AC drives to control the reversing contactor K402. If K401 is on, so is K402 sofware locked. |
| Free choice of the Relay Output | FKR, or ZR | Relay Output | Door command line Door 2 Open- This output is used to control the door scheme to drive the car or by 400V AC drives to control the reversing contactor K403. If K404 is on, so is K403 software locked. |
| Free choice of the Relay Output | FKR, or ZR | Relay Output | Door command line Door 2 Close – This output is used to control the door scheme to drive the car or by 400V drives to control the reversing contactor K404. If K403 is on, so is K404 software locked. |
| (Inputs FF0 or FF4) | FKR | 24V DC Input | The Photocell ist blocked if you have +24V DC at the Input. That mean somebody or something is in Door 1 or Door 2. 0V DC indicates that the Drive-way of the door 1 or door 2 is without obstacles. Evaluation of the photocell input only within the door zone or concise contact with open and/or part-open door. (Working model normally maker NO) Reaction: Reversion of the door movement to "door open" |
| | EIT or ITR | 24V DC Input | Button Door Open Door 1 / Door 2 If passenger wishes door movement, mean that button Door 1 /button door 2 was operated and you get at the Output + 24V DC (Working model normally maker NO) Reaction: Reversion of the door movement on door open. The door is kept open over in load time duration. For abort ot the load time funktion over the time you have to push the button door close or button door open. |
| | EIT or ITR | 24V DC Input | Button Door close input Door1 / Door 2 If passenger wishes door movement, mean that button Door 1 /button door 2 was operated and you get at the Output + 24V DC (Working model normally maker NO). Dely-time for the door motion "Close" is programmable. |
| (Inputs FF1 or FF5) | FKR | 24V DC Input | |
| (Inputs FF2 or FF6) | FKR | 24V DC Input | If the Door 1/ Door 2 is completely opened, you have 0V DC at this Input. (Working model normally maker NO) Reaction: Switch the door command line door 1 open/ door 2 open. |
| (Inputs FF3 or FF7) | FKR | 24V DC Input | Door limit switch close entrance Door 1/ Door 2 The Door ist completely close, in the end position, that mean 0V DC at this Input. Reaction: Switch the door dommand line Door 1 close/ Door 2 close. |
| U10 | ZR | 230V AC Input | Shaft-door input Safety-circuit-terminals U10 All shaft doors are electrically closed if you have in the Input 230 V AC. |
| U11 | ZR | 230V AC Input | Car-door-inputs Safety-circuit-terminals U11 All car doors are electrically closed if you have in the Input 230 V AC |
| U12 | ZR | 230V AC Input | Blockedswitch-imputs Safety-circuit-terminals U12 All Shaft doors are locked, if this input have 203V AC. At the imput is 0V AC, that means actuelly stop don't locked and the door can be opened. |



PARAMETER: DOOR FUNCTION

For the software used in this system, the term "Automatic Door" refers to a telescopic shaft door in connection with a telescopic cabin door, which are jointly operated by an electric system. The technical execution of the automatic door allows a wide variety of options, from uncontrolled 400 Volt AC drive to spindle- and electronically controlled door drives.

PARAMETER: TYPE OF DOOR

In this parameter you can choose the type of the door. The following door types are in the software:

- No Door
- Handdoor no Cardoor
- Hand/Cardoor with 2 Endswitch
- Hand/Cardoor with Door-Open-Endswitch
- Hand/Cardoor with Door-Close-Endswitch
- Hand/Cardoor without Endswitch
- Automaticdoor with Door-Open-Endswitch
- Automaticdoor with Door-Close-Endswitch
- Automaticdoor without Endswitch

In menu A3.4 you can activate "Door 2" and apply the setup "like Door 1". The doors 1 and 2 have the same setups. But you can change the setup for door 2.

The term of the automatic door mean for the implemented software a telescope shaft door in connection with a telescope car and door car those to be together coupled.

For the automatic door without door limit switches in principle the same description is valid, as with door limit switch. The door instructions Open and Close remain in the final positions.

Some door engines have however no cyclic duration of 100%. Therefore the parameter must be activated" Door engine in standby Off"

The term of the turning door mean for the implemented software a turning door as shaft door in connection with a telescope driving car door or /and a folding door .

The closing of the shaftdoors hapens with the blockedswitch. The control of the blockedswitch can take place again mechanically or with solenoid operated bolt magnet.

PARAMETER: DOOR LIMIT SWITCH

At this parameter you can choose between 2 options. (Opener/ Closer) This parameter come out only if the kind of door with door limit switch are chosen. The standart value is Opener.

PARAMETER: DOORENGINE 1 ACTIVE / DOORENGINE 2 AKTIVE

At this parameter, you can choose between two values, namely **"always**" and **"standby off**". The door-engines, which have no switch-on-time of 100%, you must be choose the value "**standby off**".

PARAMETER: SHAFTDOOR WAITING

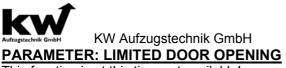
The use of this parameter is to have a delay-time for the shaft-door-contacts in the safety-circuit. When the time is over, the is a interpretation, if the door is open or closed. If you have old doorcontacts in the safety circuit of the shaftdoor, you must set the time high. The best way is always to use new doorcontacts. The standart value is 0,5 seconds.

PARAMETER : CAR DOOR WAITING

The use of this parameter is to have a delay-time for the car-door-contacts in the safety-circuit. When the time is over, the is a interpretation, if the door is open or closed. If you have old door contacts in the safety circuit of the cardoor, you must set the time high. The best way is always to use new doorcontacts. The standart value is 0,5 seconds.

PARAMETER: LATER DOOR OPENING

The start of opening the door has a delay-time. The standart value is 0,5 seconds.



This function is at this time not available!

PARAMETER: DOOR MONITOR OPEN

Within the watch dog time the door must be opened. If this does not take place, then the door is reversed and closes again. The procedure is repeated dependent on the entered number of door attemps. The universal time for the monitoring amounts to 13.0 seconds.

PARAMETER: DOOR MONITOR CLOSE

Within watch dog time the door must be closed. If this does not take place, then the door is reversed and openes again. The procedure is repeated dependent on the entered number of door attemps. The universal time for the monitoring amounts to 13.0 seconds.

PARAMETER: FURTHER TRAVEL DELAY CAR CALL

If the elevator holds at the stop with car call and other severel calls are present, then this time starts after opening the door. Passengers are to able to leave the cab in this time. Upon the expiration of the driving on time inside the door is closed and driven to the next stop. The standart value is 7,0 sec.

PARAMETER: FURTHER DELAY LANDING CALL

If the elevator holds at the stop with landing call and other severel calls are present, then this time starts after opening the door. Passengers are to able to entry the cab in this time. Upon the expiration of the driving on time outside the door is closed and driven to the next stop. The standart value is 7,0 sec.

PARAMETER: FURTHER DELAY TIME TRIGGER

At expiration of the driving on time the door is closed. If the door is blocked, then it can be decided in this parameter whether after the door reversion the driving on time is started again. The standart value is NO.

PARAMETER: DOOR RESERVE DELAY

If the door is in motion to close and she should be reverse, this means she should be open, then you need a delay time to prevent a mechanical demage of the door. The standart value is 0,5 seconds.

PARAMETER: DOOR ENGINE 1/2 AT STANDBY OFF

In Parameter you can selected the time if the door engine don't work and the cab stand with closed door. You can use this preference if you choose the parameter, Door engine" was selected actively the attitude "always". (Parks-Standby-Ready)

PARAMETER: DOOR STANDBY MAIN

If there are no car- and landing-calls present in the elevator controller, then the lift is in the Stand-By for future calls. In this condition you can choose for the door between open or close. The standart value is open.

PARAMETER: DOOR ENGINE INSPECTION

In this parameter you can choose whether with manipulation of the inspection controller the door is headed for. However you can operate the door controller over separate control.

PARAMETER: DOOR OPEN

Selective together

Both buttons are parallel. If you push of a button (Button1/Button2), so opens the last running up to door. When both doors are closed and you push the button (Button1/Button2) so opens only that door, which are last closed.

Together

Both buttons are parallel. Both doors open by the pushing of the button (Button1/Button2) **Single**

Button-1 opens Door-1, Button-2 opens Door-2

Selectively individually

Both buttons are running individually. If you push of a button (Button1/Button2), so opens the last running up to door. When both doors are closed and you push the button (Button1/Button2) so opens only that door, which are last closed.



PARAMETER: BUTTON HOLDTIME

With this parameter if a time is registered, and the load time tracer operates, then the door can run not for the adjusted time. During the load time if the load time tracer be pushed, then the load time is interruped and the door is closing. The range of values for the load time extends between 1 and 600 seconds.

PARAMETER: HOLDTIME FUNKTION

In that parameter you can choose between "single" and " together". Together means that a load time tracer is responsible for both door sides. Single means that two load time tracers, which react separately for the two door sides.

PARAMETER: BUTTON DOOR CLOSE FUNCTION

In that parameter you can choose between **single**, **together** and **selective**. **Together** mean that the Door-close-button, which connected on Input of the EIT-device ,is responsible for both door sides. **Single** mean that you need 2 Door-close-buttons, which react seperately for the two door sides. During the attitude **selective** is only one door button attached during a selective door control. The reaction of the button is always arranged the last door movemant at Door 1 / Door 2. The standart value is **together**.

PARAMETER: BUTTON DOOR CLOSE REACTION

At this parameter you can choose the delay-time, when the push-button Door-close is active.

PARAMETER: DOOR CONTROL ATTEMPS

At this parameter you can choose how many attemps you can make to close or open the door , before there would be show a door-fault. The standart value is 3 attemps.

PARAMETER: DOOR OPEN TIME

If you have a car-door without endswitches, you can choose in this parameter the time, when the ZR-Unit shows you that the door is open. Please measure the time, whitch the doors needs to open.

B11- Table of Entrance

Menu B11 is active only if you choose in menu " A Liftparameter/ A3 Shaft/ A3.4 Door Sides" the option "2 Door Sides". For every floor, there are two doorsides prepared. Now you can decide, which door realy exists.

B12- Safery Photocell

PARAMETER: SAFETY PHOTOSELL

At an elevator with shaft door without car door the entrance "safety photocell" can be. In the stop or standart drive, i.e. the jets of the safety photocell are not interrupted, that mean landing and car calls are accepted and progressed. Is there an interruption of the safety photocell, then the input safety photocell is deactivated at the FKR. As a result all calling are erased. The drive is possible only be car calls. The landing calls are not possible.

PARAMETER: PHOTOCELL- MONITOR

With this parameter a time can be set in, which is used, if the photocell is permanently blocked. After the adjusted time the photocell is ignored and the door can be closed, if an instruction to start for the park stop or a command comes for the disconnection of the control and the cab light.

PARAMETER: TRAVEL

With this parameter the function of the ramp trip can be selected. If the entrance IE0 goes on the ITR controller on +24V DC, then the ramp trip is active, i.e. the cab can be positioned with open door over the entrances of the inspection control.

PARAMETER: DOOR CLOSE DELAY

With this parameter a time can be stopped, which represents the photocell time. After the photocell was permanently blocked, the door can be closed after applying the adjusted time. The standart value time is 2,0 sec.



PARAMETER: PHOTOCELL

The entrance behavior of the photocell input can be selected here between closer and opener. The standart value is opener.

B13- Nudging Function

PARAMETER: NUDGING

With this parameter a time can be stopped, which is used, if the photocell is permanently blocked. The function is reserved for the normal-drive of the elevator. After the adjusted time the photocell is ignored and the door can be closed, if a car or landing call is in present.

B14- Entrance Monitor

PARAMETER: ENTRANCE MONITOR

This parameter activate function and inputs of the entrance-monitor.

PARAMETER: TIME A START DOOR 1/ DOOR 2

With this parameter a time can be set in, which is used, if the door closes. After the adjusted time an Output is switched, which can serve the lobby-monitor.

PARAMETER: ENTRANCE MONITOR

The entrance behavior of the lobby-monitor can be selected here between closer and opener. The standart value is closer.

B15- Mech. Lock

PARAMETER: PULSE BUF. DELAY

With this parameter you can choose the delay-time of the lock-magnet in order to compensate contact difficulties of the safety-contacts. The standard value is 500 ms.

PARAMETER: LOCK DELAY ON

This parameter allow delayed on the locked magnet. The standart value is without delay.

PARAMETET: LOCK DELAY OFF

With this parameter you can realize an delay-off-function of the lock-magnet. If you have horizontal car doors, you need this function. The standart value is without delay.

PARAMETER: LOCK HANDDOOR

If you have a handdoor and a horizontal car door, you must pay attention at this parameter. You can choose between the following values "Before the car door" and "After the car door. The standart value is "After the car door".

PARAMETER: OPEN AFTER LOCK

At the use of automatic shaft- and car doors with lock-magnet (electric sword), it is nessecary to switch off the lock-magnet, before you try to open the car door. The delay-time for the car door is free programmable.

B16- Safety-Circuit

PARAMETER: PRE-OPENING DOORS

If the lift-controller have a integrated safety-circuit-pcb, yon can activate the function for drive into the floor with open door. During the drive into the floor, you need the message of the frequency inverter, if the speed is below V < 0.3 m/s. Then the door can be opened.

PARAMETER: EARLY PREMAGN.

When this parameter is actice and the frequency inverter in use support this function, the motor can be set under voltage during the door-close-motion. After the safety circuit is closed, the can start without time-delay. With this function the floor-delay-time can reduced very powerful.

PARAMETER: SAFETY CIRCUIT



OPERATING MANUAL DAVID-2005

In this parameter you can choose the type of the safety-circuit-pcb. The standard value is the safety-circuit-pcb SIS-16. For very old controller-systems, like DAVID-2001 you need the SIS-60 (Rekoba).

B17- Releveling

PARAMETER: RELEVELING

If the elevator controller has the option of a safety-circuit-pcb, you can switch on the function releveling in the software.

Depends on the shaft-copy-system in use, you can make it in a digital system with the programming unit HPG-60 in mm stepps, or you have a magnet-system, you have to move the magnets.

PARAMETER: NO REVELING DISTANCE

This option is only necessary by a digital shaft copy system in use. If you have a standard- or simpleshaft-copy the length of the no releveling distance depends on the overcut of the level-distance 12A and 12B.

The standard value for this parameter is 5 mm. The tolerance in the way is 2,5mm over and 2,5mm under the level mark. The exacty value is depending of the art of ropes and the art of use of the elevator.

PARAMETER: MAX. RELEVELING DISTANCE

This option is only necessary by a digital shaft copy system in use. If you have a standard- or simpleshaft-copy the length of the releveling distance depends of the length of level-distance 12A or 12B. The length of the level-distance 12A and 12B must be shorter than the zone area.

The standard value for this parameter is 100mm. This is the releveing-way for one direction.

Please look at the lenght of the door-sword!

PARAMETER: LEVELING UP/DOWN

This option is only possible by a digital shaft copy system in use.

PARAMETER: TIME LIMIT

The parameter of the time limit is crucial for a retrieving procedure. The standart value is 20 sec. In this time interval if the retrieving procedure is not successfully brought to end, then it is brocken.

PARAMETER: NUMBER OF ATTEMPS

With this parameter the number of attemps can be limited with the regulation, in order to so e.g. protect the hydraulic aggregate against overheating. The standart value is 20 efforts.

PARAMETER: LIMIT AT LEVEL 1

When car is in bottom level, you can choose in this parameter if the number of the releveling-attemps is reduced, like in parameter before or the is no limit.

PARAMETER: OVERLOAD

With this parameter you can choose, if the releveing-function is aktive when the overload procedure is present. The standart value is the active releveling, according to the EN81.

PARAMETER: FAULT HANDLING

If there is an error at the releveling-function, the following reactions are possible:

- "Lowering & Block"- This value can be used for hydraulic elevators. The car is lowered into the lowest stop place, in order to avoid an uncontrolled lowering.
- **"Block Immeadedly**" This value can be used for rope elevators.
- "Next Floor & Block" This value can be used for rope elevators.

PARAMETER: FINE-RELEVELING

The releveling will be handled by an external hydraulic-aggregate.



B21 Car Calls

PARAMETER: DOOR REVERSE CAR CALL

With activation of this function, the closing of the door will be reversed if the control button in the car is pushed at the current landing, i.e. the door stops and reopens.

PARAMETER: SELECTIV CAR CALLS

In this parameter the selective door control activate with a second car call strand. At the Floor with front and back door in each case 2 call buttons are present. Button 1/2 opens Door1/2.

PARAMETER: SELECTIV CAR CALLS

In this parameter you choose the time after which the car calls are deleted, if an error happens. The standart value is 4,0 sec.

PARAMETER: CAR PANEL CONTROLLER

In this parameter you can indicate whether the selective car calls realise with one or two car controller ITR. To 8 stops the realization you can use an car calling controller, and/or can alternatively second car calling controller ITR.

PARAMETER: BUTTON BUZZER

In this parmeter you can indicate wherther an acoustic messaging at the push button movement.

PARAMETER: CAR CALL RANGE

In this parameter the lift can be divided into two ranges, which will not leave by car calling.

PARAMETER: CAR CALL LIMIT

Car call border: > xx calls delete Function: If elevator drive into the floor and more car calls indicated than in the parameter is set in, then the car calls will be automically deleted.

PARAMETER: MISUSE PROTECTION:

The car calls deletes with the next stop ,if 2 following each stops no light barrier interruption takes place.

B22- Landing Calls

PARAMETER: DOOR REVERSE LANDING CALL

If the door revision is active with landing call, the door movement reverse with pushing the landing call button at the current stop, then the door continues and open.

PARAMETER: MODUL

In this parameter you can indicate if landing calls are received at the central unit ZR or remote station ER-XXXX.

PARAMETER: SELECTIVE LANDING CALLS

In this parameter the selective door control activates with a second landing call strand. At the Floor with front and back door 2 call buttons are present in each case at the two external call sides. Depending on which of the two door sides the extrenal call pushers are operated, there the door opened. The realization is made by the two call entrances 2xC and 2xD at the Remote Station ER-2007 and/or ER-2005.

PARAMETER: ERASE UP AND DOWN CALLS

During the attitude 2KS Up call and Down call can be given faulty operations both calls, i.e. although only one trip desire is present. Thus it comes to unnecessary movements of the lift. If the parameter oportunity call erasement 2KS is active, then the second call, which is given within a short time interval, is suppressed. With entry into the goalstop both calls are deleted. The standart value for this function is off.

PARAMETER: SAVE TRAVEL

During the attitude 2KS you can select, how long is the driving move on direction.



PARAMETER: CAR CALL HANDLING

At this parameter you can choose between Save or Delete as landing call handling at car priority mode.

If deletion is present, after start car priority mode all external calls delete. After switch off this mode, new landing calls can put in. With the mode operation "save", all landing calls remains.

B24- Landing Priority

PARAMETER: TIME CALL INPUT

In order to take the lift not for a long time from normal operation, the time for the input of the priority car calls is limited. The standard value is 20 seconds.

PARAMETER: FLOOR CALLS

At this parameter you can choose between Save or Delete as landing call handling at car priority mode.

If deletion is present, after start car priority mode all external calls delete. With the mode operation "save", all landing calls remains

PARAMETER: PRIORITY CAR CALL

You can choose between Separately, Collectively, Separately softly and Separately emptying.

During the attitude **separately** comes the car, with assigne which the landing priority button. The car comes immediately. Car calls are deleted. Both external flash in the case of the time window call input.

With the mode of operation **collective** is needed only a landing priority button for 2 group of elevators. With the first manipulation the next car comes. With a second manipulation the second cab comes.

With **separately soft** a certain elevator comes, the car and landing controller stay. This function used at unequal groups, the cab drive in all floors.

In the case of **separately emptying** a certain elevator comes, but the lift goes out of the external control and the car calls is processed. The input of new car calls is not possible, until the floor is reached the landing priority. This function is used in order to introduce an hindrance drive without reducing the traffic capacity of the group drastically.

B25- Group

DOOR FAILURE

The group control works according to the principle "flying of the master" to take over the group control that means that each central computer (ZR) is able to take over the group control. It is possible to interconnect maximally 8 central computers by the group bus and to realize thus groups of eights. One of the central computer takes over the function of the master, where ZR is the master is unimportent. The group master fail or be switched off, so automatically another central computer takes over this function. By the group bus all branches of landing call, at which the remote station are tied up, are connected with all central computers. Thus all ZR has each other the full access to all remote station independently of. The elevator bus is ased physically on that kind of industrial condition RS485 on one high-speed minutes runs.

Information exchange:

The lining up landing calls are read in by the group master and distributed to the central computers (elevators) the available distributes. With the distribution information about door times, track curves and floor distances of the individual lifts is considered. The master knows exactly, how long a trip lasts the door in the started goal stop from floor X to floor Y, how long it lasts, to itself opens and additionally the master knows the average driving on the time in this stop place. Further are well-known the master all lying close interior and other calls well as the loading condition of all elevators. All these information makes an intelligent, optimal traffic management possible.

Call distribution:

A new landing call is accepted, the group master with the above mentioned information from all lifts the available will measure exactly, which elevator this landing call in the indicated driving direction



OPERATING MANUAL DAVID-2005

fastest to serve can pass and the landing call on to this elevator. A fully loaded elevater will start e.g. no landing call, if in these goal floor the elevator has no car calls.

The landing call distribution as well as the exchange of all above mentioned information about the status of the group elevators in real time 10 times per second one updates. That means the fact that landing call this already assigned is e.g. removed from the elevator No.1 again and is assigned to the elevator No.2, if the elevator will be longer No.1 due to a longer driving on time or new interior calls than originally computed on the way.

The driving on direction for each floor is spend on each elevator at the remote station ER.

This should be absolutely represented for each elevator optically, so that the passengers can go before the arrival of the cab to the correct elevator.

Advantages of the strategy

A direct entry and a mechanism of kind of snapping (premagnetion last to the door close motion) the group concept can be supported by the regulation. The advantages of an optimized call dispatching under consideration of the condition model of the single elevators result in the thereby:

- Even extent of utilization of all elevators and balanced energy balance of the individual lifts
- Shorter waiting periods in the individual floors and dynamic adjustment to the call arising
- High availability of the group system
- Optimized processing of the external calls guarantees shortest drives

PARAMETER: DOOR DISTURBANCE AFTER

If door handicaps in a stop of the lift arise, e.g. to photoelectric cell blockings, then the plant goes to applying the adjusted time out of the group enterprise. Other lifts can take over the processing of the available calls and start the blocked stop.

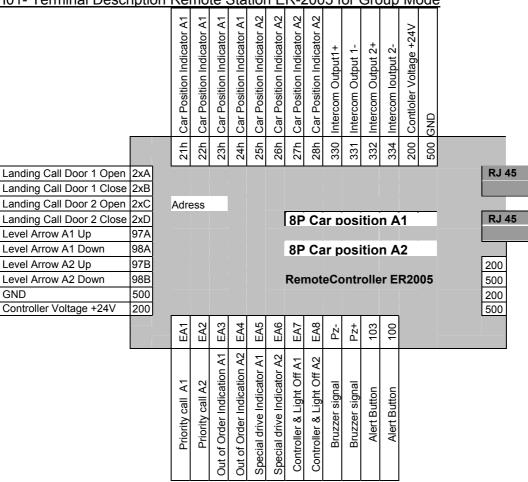
PARAMETER: ALLOCATION OF THE ENTRANCES AND EXITS FOR THE GROUP ENTERPRISE

Two lifts divide a remote station. On the remote station there are free programmable in- and outputs channels:

| G00 | no function | |
|-----|----------------------------------|---|
| G01 | Landing call door 2 Up | Selective landing call up Door 2 |
| G02 | Landing call door 2 Down | Selective landing call down Door 2 |
| G03 | Collective priority call | To call the next elevator with priority |
| G04 | Priority landing call elevator 1 | To call elevator 1 with priority |
| G05 | Priority landing call elevator 2 | To call elevator 2 with priority |
| G06 | Priority landing call elevator 3 | To call elevator 3 with priority |
| G07 | Priority landing call elevator 4 | To call elevator 4 with priority |
| G08 | Priority landing call elevator 5 | To call elevator 5 with priority |
| G09 | Priority landing call elevator 6 | To call elevator 6 with priority |
| G10 | Priority landing call elevator 7 | To call elevator 7 with priority |
| G11 | Priority landing call elevator 8 | To call elevator 8 with priority |
| G12 | Arrow elevator-1 Up | Arrow output Up for elevator 1 |
| G13 | Arrow elevator-1 Down | Arrow output Down for elevator 1 |
| G14 | Arrow elevator-2 Up | Arrow output Up for elevator 2 |
| G15 | Arrow elevator-2 Down | Arrow output Down for elevator 2 |
| G16 | Arrow elevator-3 Up | Arrow output Up for elevator 3 |
| G17 | Arrow elevator-3 Down | Arrow output Down for elevator 3 |
| G18 | Arrow elevator-4 Up | Arrow output Up for elevator 4 |
| G19 | Arrow elevator-4 Down | Arrow output Down for elevator 4 |
| G20 | Arrow elevator-5 Up | Arrow output Up for elevator 5 |
| G21 | Arrow elevator-5 Down | Arrow output Down for elevator 5 |
| G22 | Arrow elevator-6 Up | Arrow output Up for elevator 6 |
| G23 | Arrow elevator-6 Down | Arrow output Down for elevator 6 |
| G24 | Arrow elevator-7 Up | Arrow output Up for elevator 7 |
| G25 | Arrow elevator-7 Down | Arrow output Down for elevator 7 |
| G26 | Arrow elevator-8 Up | Arrow output Up for elevator 8 |
| G27 | Arrow elevator-8 Down | Arrow output Down for elevator 8 |
| G28 | In-Output Elevator-1 | Free function at elevator 1 |
| G29 | In-Output Elevator-2 | Free function at elevator 2 |
| G30 | In-Output Elevator-3 | Free function at elevator 3 |
| G31 | In-Output Elevator-4 | Free function at elevator 4 |
| G32 | In-Output Elevator-5 | Free function at elevator 5 |
| G33 | In-Output Elevator-6 | Free function at elevator 6 |
| G34 | In-Output Elevator-7 | Free function at elevator 7 |
| G35 | In-Output Elevator-8 | Free function at elevator 8 |



OPERATING MANUAL DAVID-2005



The output of the car controller conditions effected with group plants codes. An output in "the 1 of N"format is not possible, but the Binary code and Gray code are available. The output for arrow is selectable between far trip and direction of travel arrows. The output for gong separately takes place for both plants. At the exits 330 & 331 as well as 332 & 333 only one miniature loudspeaker is attached. Volume and pitch, as well as multiple gong are adjusted over the control.

Each remote station needs its own adress in the system. This adress is modulate with the ER-2005 over DIP switch on the PCB.

H02- Klemmenbeschreibung Etagenrechner ER-2007 für den Gruppenbetrieb

| | | Anschluß Matrix- Anzeige RJ-12 | | |
|----------------------|-----|-----------------------------------|-----|----------------------|
| Bus-Verbindung RJ-45 | | | | Bus-Verbindung RJ-45 |
| | | | | |
| Steuermasse 0V | 500 | | 20 | Steuerspannung +24V |
| Außenruf T1 Auf | 2xA | | PZ | 2 Piezosummer T2 |
| Außenruf T1 Ab | 2xB | | 98/ | Etagenpfeil T2 Ab |
| Etagenpfeil T1 Auf | 97B | Etagenrechner ER-2007 | 97/ | Etagenpfeil T2 Auf |
| Etagenpfeil T1 Ab | 98B | | 2x[| Außenruf T2 Ab |
| Piezosummer T1 | PZ1 | | 2x0 | Außenruf T2 Auf |
| Steuerspannung +24V | 200 | | 50 |) Steuermasse 0V |

| Terminal | Function |
|----------|--|
| 2xA | Landing Call D1 Up |
| 2xB | Landing Call Down |
| 2xC | Free allocable : i.g. Landing Call D2 Up at selective door |
| 2xD | Free allocable : i.g. Landing Call D2 Down at selective door |
| 97A | Free allocable: i.g. Floor Arrowl D1 Up |
| 98A | Free allocable: i.g. Floor Arrowl D1 Down |
| 97B | Free allocable: i.g. Floor Arrowl D2 Up |
| 98B | Free allocable: i.g. Floor Arrowl D2 Down |
| 500 | GND |



200

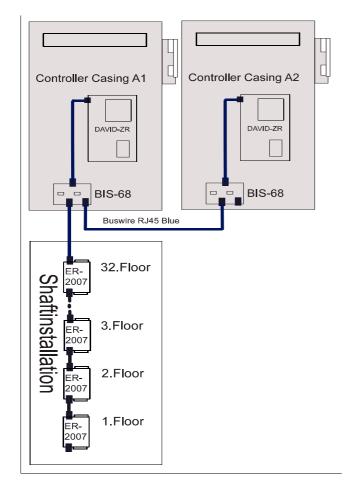
KW Aufzugstechnik GmbH Control Voltage +24V DC

Each remote station needs own address in the system. This address is stopped over the dip-switcher on the printed circuit board.

| Adress i | Adress input remote station 1. group-bus (for 2 elevators) | | | | |
|----------|---|-------|-----------------------------------|--|--|
| Floor | Number / Setup at the Dipp-switch | Floor | Number / Setup at the Dipp-switch | | |
| 1 | 000000 | 9 | 001000 | | |
| 2 | 000001 | 10 | 001001 | | |
| 3 | 000010 | 11 | 001010 | | |
| 4 | 000011 | 12 | 001011 | | |
| 5 | 000100 | 13 | 001100 | | |
| 6 | 000101 | 14 | 001101 | | |
| 7 | 000110 | 15 | 001110 | | |
| 8 | 000111 | 16 | 001111 | | |

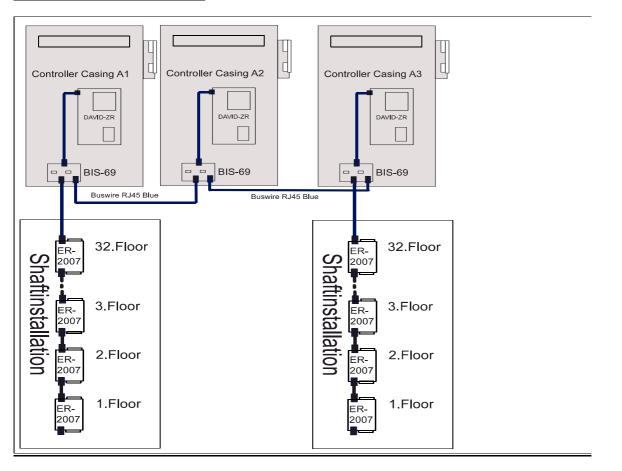
| Adress input remote station 2. group-bus (for 2 elevators) | | | | |
|---|-----------------------------------|-------|-----------------------------------|--|
| Floor | Number / Setup at the dipp-switch | Floor | Number / Setup at the dipp-switch | |
| 1 | 010000 | 9 | 011000 | |
| 2 | 010001 | 10 | 011001 | |
| 3 | 010010 | 11 | 011010 | |
| 4 | 010011 | 12 | 011011 | |
| 5 | 010100 | 13 | 011100 | |
| 6 | 010101 | 14 | 011101 | |
| 7 | 010110 | 15 | 011110 | |
| 8 | 010111 | 16 | 011111 | |

Group wiring at a 2 No.-Group



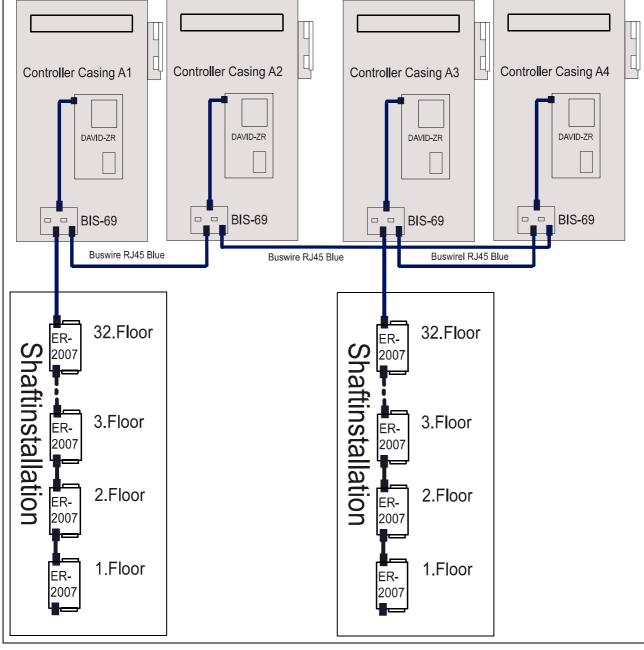


Group wiring at a 3 No.-Group





Group wiring at a 4 No.-Group





Contactor switching and Drive-diagram of hydraulic elevators

In principle three pre-signals are sufficient for the hydraulic elevator control, because with the directions also the slow speed V0 is published.

| Des. | Pre Controlling | Hydraulics | • | Robe Frequency | Robe Unregulated | |
|-------|-------------------------|---------------------|--------------------|--------------------|--------------------------|--|
| 5 | K31 | K11/K11A Up | -Contactor | K3 Drive Contactor | K1 Up-Contactor | |
| 3 | K32 | K2/K2A Dowi | n-Contactor | K3 Drive Contactor | K2 Down-Contactor | |
| 7 | K33 | | | K5 Main Contactor | K3 Quick-Contactor | |
| 9 | K34 | K12/K13 Cha | ngeover S-D | K7-Brake Contactor | K4 Slow-Contactor | |
| Compa | are of the contactor sv | witching of differe | nt types of drives | | | |
| Des. | Drive Instructio | ons | Hydraulics | | Rope Frequency Regulated | |
| Down | | | Direction Down | | Direction Down | |
| Up | | | Direction Up | | Direction Up | |
| Vins | | | Speed Vi | | Speed Vins | |
| Vn | | | Speed Vn | | Speed Vna | |
| V0 | | | Speed V0 | | Speed V0 | |
| V1 | | | Speed V1 | | Speed V1 | |
| V2 | | | Speed V2 | | Speed V2 | |
| V3 | | | Drive K73 | | Speed V3 | |

Compare of the drive commands of different types of drives

B30 – Hydraulic – Drives

PARAMETER: START

In this parameter, you can choose two values, namely " Star/ Delta " and " Softstart"

PARAMETER: S/D-REVERSE TIME

This parameter represents the reverse time between star-protection and triangle-protection. The standard value is 2 seconds.

PARAMETER : COMMAND UP DELAYED ON

If you activate this parameter, you can switch on the up-command with a delay-time. The standard value is 100 ms. You need this function in connection with Bucher-LRV-Regelkarten.

PARAMETER: DIRECTION UP DELAYED

The parameter have a option to switch on retarded the up direction. The standart value is NO.

PARAMETER: COMMAND UP DELAYED

If you activate this parameter, you can switch off the up-command with a delay-time. The standard value is 400 ms.

PARAMETER: START WITH DOOR CONTROLLING

If you activate the parameter, you can start the hydraulic-pump in the same time how the motion to close the door begins. In the standard-parameter set the function is not activated.

PARAMETER: INSPECTION SPEED

Speed:

1.) SLOW

2.) QUICK

PARAMETER: TIME TO GO DOWN

The hydraulic elevator must lower late after first of all 15 minutes to the lowest stop place. The time is adjustable by this parameter.

PARAMETER: FAULT HANDLING

By the menu attitude can be selected, as the control has to react to error messages of the regulation.

- a. "NO"- regulation does not have a disturbance exit.
 - b. "STOP + LOWERING"- If there is an error in the regulation, the driving instructions are back taken and the calls are deleted. The car is lowered into the lowest stop place.

PARAMETER: TRAVEL DOWN AT OVERLOAD

Is Overload in the car it must at expiration of the sinking time be decided whether lower or not. The standart value is NO.

PARAMETER: SIGNAL TOP OF RAMP



OPERATING MANUAL DAVID-2005

After eaching "the Top Of the Ramp" o the softstart unit approach equipment this further announced to the regulation. During the attitude of kind of condition this parameter is active.

PARAMETER: COMMAND DOWN DELAYED ON/OFF

The parameter contains the alternative to switch strainghtening on retarded. This is needed with the employment of a return flow prevention valve (e.g.ALGI-S5). The standart value is NO.

B31 – Hydraulic Regulated

PARAMETER: START

In this parameter, you can choose two values, namely " Star/ Delta " and " Softstart"

PARAMETER: S/D-REVERSE TIME

This parameter represents the reverse time between star-protection and triangle-protection. The standard value is 2 seconds.

PARAMETER : COMMAND UP DELAYED ON

If you activate this parameter, you can switch on the up-command with a delay-time. The standard value is 100 ms. You need this function in connection with Bucher-LRV-Regelkarten.

PARAMETER: DIRECTION UP DELAYED

The parameter have a option to switch on retarded the up direction . The standart value is NO.

PARAMETER: COMMAND UP DELAYED

If you activate this parameter, you can switch off the up-command with a delay-time. The standard value is 400 ms.

PARAMETER: START WITH DOOR CONTROLLING

If you activate the parameter, you can start the hydraulic-pump in the same time how the motion to close the door begins. In the standard-parameter set the function is not activated.

PARAMETER: INSPECTION SPEED

Speed:

- 1- slow
- 2- Vi
- 3- quick

PARAMETER: TIME TO GO DOWN

The hydraulic elevator must lower late after first of all 15 minutes to the lowest stop place. The time is adjustable by this parameter.

PARAMETER: FAULT HANDLING

By the menu attitude can be selected, as the control has to react to error messages of the regulation.

- a) "NO"- regulation does not have a disturbance exit.
- b) "STOP + LOWERING"- If there is an error in the regulation, the driving instructions are back taken and the calls are deleted. The car is lowered into the lowest stop place.

PARAMETER: TRAVEL DOWN AT OVERLOAD

Is overload in the car it must at expiration of the sinking time be decided whether lower or not. The standart value is NO.

PARAMETER: SIGNAL TOP OF RAMP

After eaching "the Top Of the Ramp" on the softstart unit approach equipment this further announced to the regulation. During the attitude of kind of condition this parameter is active.

PARAMETER: COMMAND DOWN DELAYED ON/OFF

The parameter contains the alternative to switch strainghtening on retarded. This is needed with the employment of a return flow prevention valve (e.g.ALGI-S5). The standart value is NO.steht auf NEIN.

B32 – Hydraulic Variable Frequency

PARAMETER: V0 DELAYED OFF

The parameter contains the attitude to switch the speed V0 off retarded. The standart value is NO.



OPERATING MANUAL DAVID-2005

The parameter contains the attitude to switch off the main contactors retarded. The standart value is 600 ms.

PARAMETER: DIRECTION DELAYED OFF

Time-delayed will the removal of the driving direction, in order to ensure stopping without jerking. The deceleration time is adjustable in the menu. As default value are deposited 1500 ms.

PARAMETER: RELEVELING SPEED

Some regulation makes connot spend of Vn to the releveling. It can be selected by the menu attitude whether the releveling time is accomplished with the speed of Vn or V0.

PARAMETER: INSPECTION SPEED

Some regulation have no inspection speed Vi. It can be selected by the menu attitude whether the inspection speed is accomplished with the speed of Vi or V0.

PARAMETER: TIME TO GO DOWN

The hydraulic elevator must lower late after first of all 15 minutes to the lowest stop place. The time is adjustable by this parameter.

PARAMETER: FAULT HANDLING

By the menu attitude can be selected, as the control has to react to error messages of the regulation.

- a) "NO"- regulation does not have a disturbance exit.
 - b) "STOP + LOWERING"- If there is an error in the regulation, the driving instructions are back taken and the calls are deleted. The car is lowered into the lowest stop place.

PARAMETER: TIME TO GO DOWN AT OVERLOAD

Is overload in the car, it must at expiration of the sinking time be decided whether lower or not. The standart value is NO.

PARAMETER: BLOCKING UPPER LIMIT-SWITCH

If the car was in the upper limit switch in normal operation, then the car is lowered and closed into the lowest floor . During the attitude of kind of condition this paramenter is active.

PARAMETER: COMMAND OUTPUT

With this parameter can be adjusted, as the expenditure for command takes place to the regulation. Two variants are available:

- 1) With hydraulic BUCHER SATURN Alpha
- 2) With hydraulic ALGI AZFR (code output)

| Input ALGI-AZFR: | |
|----------------------------------|--|
| UP | |
| DOWN | |
| Μ | |
| V | |
| Speed V0 switched of with delay: | -> No |
| Direction with delay: | -> No |
| Releveling speed: | -> Vn |
| Inspection speed: | -> Vi |
| | UP DOWN M V Speed V0 switched of with delay: Direction with delay: Releveling speed: |



B33- Robe 2 Speeds

Contactor Switching

In general you need four signals for switching.

| Term | Pre-Switching | Rope Variable Frequency | Rope 2 Speeds |
|------|---------------|-------------------------|--------------------|
| 5 | K31 | K3 Main Contactor | K1 Up Contactor |
| 3 | K32 | K3 Main Contactor | K2 Down Contactor |
| 7 | K33 | K5 Main Contactor | K3 Quick Contactor |
| 9 | K34 | K7-Brake Contactor | K4 Slow Contactor |

Experation of trip

The trip begins with the control of the high-speed contactor K3 in order to put the current to the fast coil. Time-delayed the up or down contactor activates. The deceleration time is adjustable in the menu. The standard value is 100ms. If the point of delay is reached then that drops high-speed contactor and the slow contactor is activated. With reaching the concise signal become both contactors breaked.

PARAMETER: MOTORVENTILATION

Here you can activate the motor ventilation and put in the time. The standart value is off.

PARAMETER: CONTACTOR DELAYED ON

Time-delayed activates the up or down contactor. The deceleration time is adjustable in the menu. The standard value is 100 ms.

PARAMETER: INSPECTION SPEED

In this parameter you can put in the speed for inspection. You can choose quick or slow speed.

PARAMETER: REVERSE TIME OUT

The switching break is adjustable between the change-over of the high-speed contactor to the slow contactor. Factory setting does not plan a break.



V1

V2

V3

KW Aufzugstechnik GmbH

B34- Robe Variable Voltage

Contactor Switching

In general you need four signals for switching

| Term | Pre-switching | Rope Variable Frequency | Rope Variable Voltage | |
|--------------------|--|-------------------------|--|--|
| 5 | K31 | K3 Main contactor | K1 Up contactor | |
| 3 | K32 | K5 Main contactor | K2 Down Contactor | |
| 7 | | | K5 Main contactor | |
| 9 | K34 | K7 Brake contactor | K7 Brake contactor | |
| | | | | |
| Туре | Rope Variable Frequency | | | |
| | Rope variable | Frequency | Rope Variable Voltage | |
| Up | Direction Up | Frequency | Direction Up | |
| Up | | | | |
| Up | Direction Up | | Direction Up | |
| Up Down | Direction Up Direction Down | | Direction Up Direction Down | |
| Up Down Vins | Direction Up Direction Down Speed Vins | | Direction Up Direction Down Speed Vins | |

Speed V1

Speed V2

Speed V3

PARAMETER: MOTORVENTILATION

Speed V1

Speed V2

Speed V3

Here you can activate the motor ventilation and put in the time. The standart value is off.

PARAMETER: DIRECTION DELAYED ON

Time-delayed activates the up or down contactor. The deceleration time is adjustable in the menu. The standard value is 100 ms.

PARAMETER: MAIN CONSTRUCTOR DELAYED OFF

In order to ensure a stopping without jeking, the direction contactors and net contactor retarded break. The standard value is 600 ms.

PARAMETER: RELEVELING SPEED

In this parameter you can put in the speed for releveling. You can chosse speed VN or V0.

PARAMETER: FAULT HANDING

In this parameter you can chosse the reaction of the controller, if there is a fault in the inverter-part.

- A) "Interrupt" If there is a fault in the inverter, the drive-orders and the calls will be erased. If there is a new call, the controller tries again to start.
- B) "**Block**" If there is a fault in the inverter, the drive-orders and the calls will be erased. The controller is blocked. Only a RESET-signal can turn on the controller.
- C) "Block at 2.Fault" If there are two faults in a serie in the inverter, the drive-orders and the calls will be erased. The controller is blocked. Only a RESET-signal can turn on the controller.
- D) "Block at 3.Fault" If there are three faults in a serie in the inverter, the drive-orders and the calls will be erased. The controller is blocked. Only a RESET-signal can turn on the controller



B35- Robe Variable Frequency

Contactor Switching

In principle the frequency-regular rope elevator needs three vat signals.

| Term | Vorsteuerung | Rope Frequency | Robe Variable Frequency | |
|------------|--------------------------|-------------------------------------|-------------------------|--|
| 5 | K31 | K3 Drive Contactor | K1 Auf-Schütz | |
| 3 | K31 | K5 Main Contactor | K2 Ab-Schütz | |
| | | | K5 Main Contactor | |
| 9 | K34 | K7-Brake Contactor | K7-Brake Contactor | |
| The drivir | ng instructions are sir | nilar to those with tension-regular | plants. | |
| Term | Rope Frequency Regulated | | Robe Variable Frequency | |
| AB | Direktion Up | | Direktion Up | |
| AUF | Direktion Down | | Direktion Down | |
| Vins | Speed Vins | | Speed Vins | |
| Vn | Speed Vn | | Speed Vn | |
| V0 | Speed V0 | | Speed V0 | |
| V1 | Speed V1 | | Speed V1 | |
| V2 | Speed V2 | | Speed V2 | |
| V3 | Speed V3 | | Speed V3 | |

PARAMETER LIFTBUS

In the case of activation of the parameter regulations (frequency inverter) can communicate over RS 485 connection with the controller. The change-over between the display of the frequency inverter and the control is made by a combination of keys at the HPG60: The left key must remain pressed and then the lowest key is pressed. As selectable software programs the KW liftbus, Thyssen LS2-bus and DCP-3 are available.

PARAMETER MOTOR FAN

An free-provable exit of the central unit can be selected for the engine ventilation. The attitude of the time is adjustable in the menu.

PARAMETER: V0 DELAYED OFF

The parameter contains the attitude to switch off the speed V0 retarded. The standard value is NO.

PARAMETER: DIRECTION DELAYED OFF

Time-delayed will the removal of the driving direction, in order to ensure stopping without jerking. The deceleration time is adjustable in the menu. As default value is deposited 2500 ms.

PARAMETER: MAIN CONSTRUCTOR DELAYED OFF

The driving contactors must become retarded turning-off, in order to hold the car with number of revolutions 0, until the brake contactor drops. The standard value is 2500 ms.

PARAMETER: REVELING SPEED

In this parameter you can put in the speed for releveling. You can chosse VN or V0.

PARAMETER: FAULT HANDING

In this parameter you can chosse the reaction of the controller, if there is a fault in the inverter-part.

- E) "Interrupt" If there is a fault in the inverter, the drive-orders and the calls will be erased. If there is a new call, the controller tries again to start.
- F) "**Block**" If there is a fault in the inverter, the drive-orders and the calls will be erased. The controller is blocked. Only a RESET-signal can turn on the controller.
- G) "Block at 2.Fault" If there are two faults in a serie in the inverter, the drive-orders and the calls will be erased. The controller is blocked. Only a RESET-signal can turn on the controller.
- H) "Block at 3.Fault" If there are three faults in a serie in the inverter, the drive-orders and the calls will be erased. The controller is blocked. Only a RESET-signal can turn on the controller.

PARAMETER: COMMAND OUTPUT

With this parameter can be adjusted, as the expenditure for command takes place to the regulation. Two variants are available:

- 1) With On and Off command (standart GOLIATH)
- 2) With release and a direction command (DIETZ)



OPERATING MANUAL DAVID-2005

B4 – Shaft Copy Systems

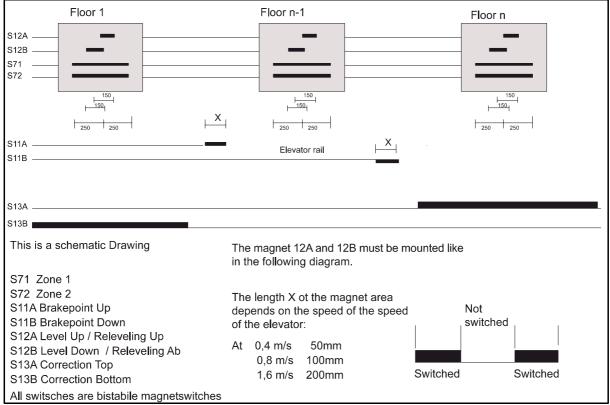
B41 – Standart Copy

1.0 General

The standart-copy is a shaft-copy method, which needs six switches in the shaft.

- S11A Brakepoint Up
- S11B Brakepoint Down
- S12A Level Up
- S12B Level Down
- S13A Correctionswitch Top
- S13B Correctionswitch Bottom

All magnet-switches are biposition-switches with the corresponding round-magnet. For the pinning of the magnets you must use the elevator-rail and shaft-flags.



2.0 Leveling

he leveling depends on the direction. With rope-elevators without pre-opening the door the stopping in direction up is with the magnet-switch 12B, and in direction down with the magnet-switch 12A.

3.0 Brakepoints and Correction

The magnet switches 11A and 11B are the brake-switches to drive into the destination floor. If you are driving from the second floor to the first floor you doesn't need a brake magnet! You are braking with the correction switch 13B.

The same story is the drive to the last floor. You are braking with the correction switch 13B.

PARAMETER: PULSE BUFFER DELAY

Depend on the assigned solenoids and the switching gap the pulse delay-time must be selected. Factory setting at height of 30 ms represents a good average value.

PARAMETER: CORRECTION TRAVEL

If it comes in the shaft copying to false countings, a correction trip goes on. The time of execution can take place "after call input" or immediately in "automatic" mode.

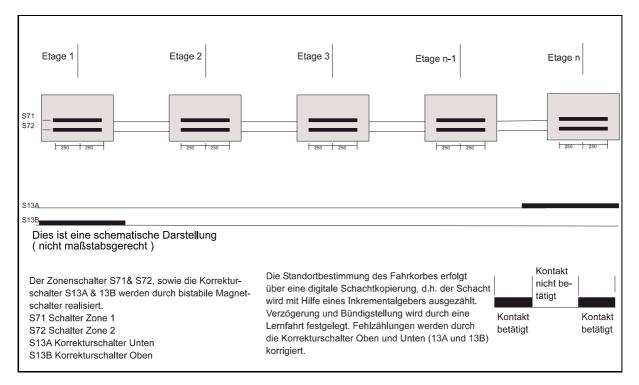


1.0 General

The relative-copy is a digital shaft-copy method, which only needs three switches in the shaft.

- S72 Zone 1
- S72 Zone 2 (Only in case of releveling or pre-opening-doors)
- S13A Correctionswitch Top
- S13B Correctionswitch Bottom

All magnet-switches are biposition-switches with the corresponding round-magnet. For the pinning of the magnets you must use the elevator-rail. The pulses for the shaft-copy are coming from a decoder.



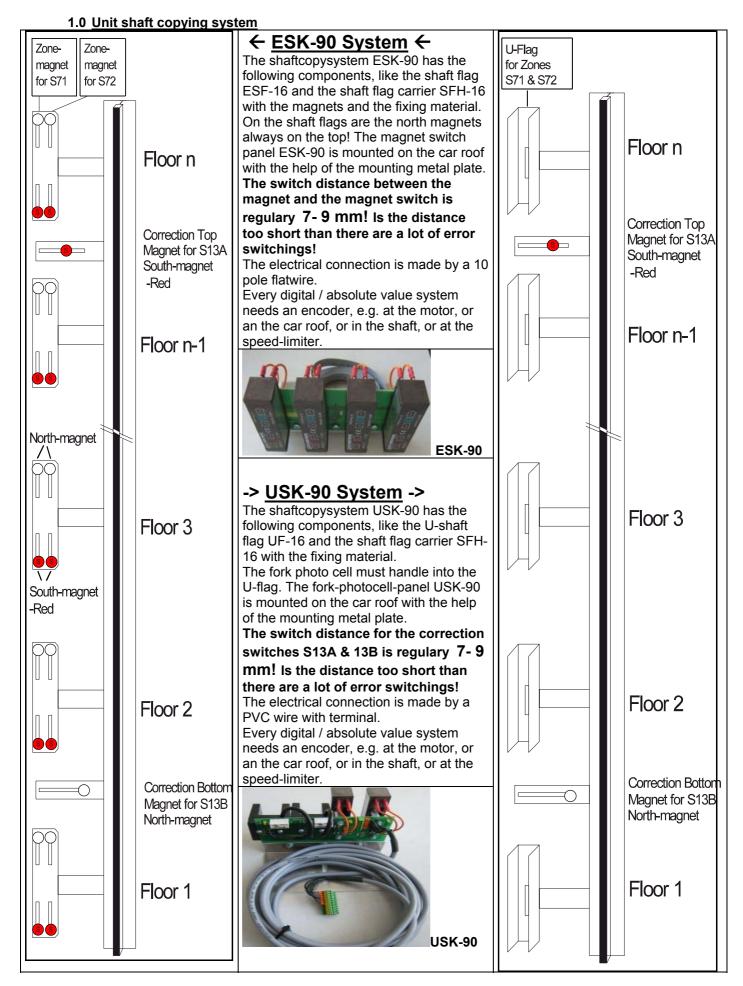
2.0 Releveling

After the learn-drive the middle of the Zone-way is the value of the floor-level. This can be corrigate by the parameter "Leveling" for each floor. A change of the position of the zone-magnets is forbidden. A very concret description is in the chapter **I01-Activation of the digital shaft presentation.**

3.0 Deceleration and Correction switches

The deceleration for the drive into the destination-floor will be managed by the digital shaft-copy. The correction switches are used only for synchronize the shaft-copy-system and for a safe deceleration in the end-floors in a emergency-situation, like a failure in the digital shaft-copy. A change of the position of the correctionswitches-magnets is forbidden. A very concret description is in the chapter **I01-Activation of the digital shaft presentation.**







Autrugstechnik GmbH KW Aufzugstechnik GmbH PARAMETER: PULSE BUFFER DELAY

There is a pulse buffer-delay-time between 2 and 150ms. Its depends on the type of magnets, you are using. The KW-magnets only needs a delay-time of 2ms.

PARAMETER: CORRECTION TRAVEL

If it comes in the shaft copying to false countings, a correction trip goes on. The time of execution can take place "after callinput" or immediately in "automatic" mode.

PARAMETER: 2.PRE-END-SWITCH BOTTOM

There is a golden rule that the pre-end switch bottom must be between 1 and 2. stop. If the 2 stop is a short trip stop, then the distance pre-end switch would not be sufficient down to the zone of the 1 stop with a faulty measurement to brake the carconcisely.

PARAMETER: 2.PRE END SWITCH TOP

There is a golden rule that the pre-end switch bottom must be between last and pre-last stop. If the pre-last stop is a short trip stop, then the distance pre-end switch would not be sufficient down to the zone of the last stop with a faulty measurement to brake the carconcisely. In this situation the 2. pre-end-switch can be placed between the pre-last- and pre-pre-last-floor.

PARAMETER: SHORT TRAVELS

With extreme short trip stops is appropriate for two stops within a zone. With this parameter it is adjusted whether this case is present and if like many of these short trip stops is present.

PARAMETER: DISTANCE PRE-END-SWITCH – ZONE BOTTOM

In this parameter the distance center magnet pre-end switch is registered down to the highest magnet of the lowest zone in mm. This value must be determined absolutely accurately. It is important for perfect functioning of the digital shaft copying.

Attention! With hydraulic, unsetteled rope and variable voltage rope plants the input the delay way of <u>both</u> direction takes place. (UP and DOWN-Direction)! With hydraulic and there however only V0 and V-fast are unsetteled rope plants to stop!

PARAMETER: DECELERATION SPEED V0 -> 0

This parameter is the brake-way from the drive-in speed V0 to the stop (0). The value comes automaticly by the learn drive. Nevertheless the value can be change per hand.

PARAMETER : DECELERATION V1

This parameter is the brake-way from the speed V1 to the drive-in speed V0. This value depends on the speed V1 and the deceleration in the inverter. The standart value is 500 mm.

PARAMETER: DECELERATION V2

This parameter is the brake-way from the speed V2 to the drive-in speed V0. This value depends on the speed V2 and the deceleration in the inverter. The standart value is 1000 mm.

PARAMETER: DECELERATION V3

This parameter is the brake-way from the speed V3 to the drive-in speed V0. This value depends on the speed V3 and the deceleration in the inverter. The standart value is 1500 mm.

PARAMETER: LEARN DRIVE WITH

For the learn drive you can choose three speeds like, V1, V2, and V3. If you have a drive with a short distance, you should chosse speed V1. The standart value is speed V1.

PARAMETER: ENCODER INPUT

The encoder for the shaft copying can attache on the Car (FKR) or the machine room (ZR). The location is to be registered in this parameter. As default value ZR is deposited.

PARAMETER: LERN DRIVE ACTIVATE

If the electrical installation is ok and the software-parameters like number of floors,..., is put in, the learn-drive can be started. The car should be in a position between the first and second floor, but it must stand above the correction switch bottom. Then the learn-drive should be started. A very concret description is in the chapter **I01-Activation of the digital shaft presentation.**

PARAMETER: SWITCH HYSTERES OVERLAPPING

After successful learning trip the value of the hysteress was determined for the shaft switches.

PARAMETER:LEVELING-FLOOR-XX

After a learn-drive, you must put in this parameter in the level-values for each floor. Here you can corrigate unlevels for every floor.



B43 – Absolut Copy

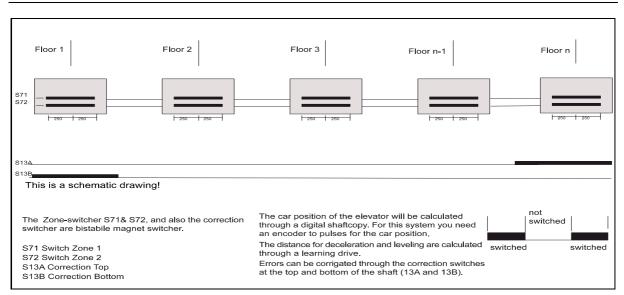
1.0 General

The absolute copying represents a digital shaft copying which is operated either without magnet control or with 3-4 magnet control:

Variant 1: Without shaft switches

After assembly that of ABS-encoder-system is turned off the car between floor 1 and 2. After start of the parameter way-collection-learn, the car moves downward with the back getting control or the inspection control. Now the control recognized the counting direction. Afterwards the car in the floor 1 (lowest stop) placed concisely. Now the parameter synchronisation stop 01 is activated. The control knows now, the lowest floor possesses which impulse conditions. With reserved pit table (all floors were reserved with calculated concise conditions) the concise correction can take place now in the other stops.

Variante 2: With shaft switches



After Mounting of the ABS-Giver-System and the shaft switcher can start the learn drive. An precise discription you can find in I01-COMMISSIONING THE DIGITAL SHAFT COPY.

The absolute value giver works with System USP or band of nops with absolute encoder.

Variante 1: Schmersel UPS, transferformat/ Interface USP30: USP-30-M24BS

Pinbelegung USP30/100 (D-SUB)

SUB) D2005/D606 (9 pol-Reihenstecker 3,5mm)

- Schirm
 1

 5
 GND
 ----- 8

 6
 SSI_Daten (B)----- 5
- 7 SSI_Takt (B) ----- 3
- 9 Ub (+24V)----- 9
- 10 Select ----- 8
- 13 SSI_Daten (A)----- 4
- 14 SSI_Takt (A) ----- 2

Variante 2: SSI-Revolving giver Type KW, with band of nops

PARAMETER: PULSE BUFFER DELAY

There is a pulse buffer-delay-time between 2 and 150ms. Its depends on the type of magnets, you are using. The KW-magnets only needs a delay-time of 2ms.

PARAMETER DISTANCE MEASUREMENT:

In this parameter the used absolute-value-system can be selected. To the choice the Schmersal UPS system, the ELGO system, W&W Type 2 and the Wachendorff SSI rotation transducer.



In this parameter you can choose, if you want to use shaft switches or not. It depends of the settings, if some parameter menus are not invisible.

Attention! With hydraulic, unsetteled rope and variable voltage rope plants the input the delay way of <u>both</u> direction takes place. (UP and DOWN-Direction)! With hydraulic and there however only V0 and V-fast are unsetteled rope plants to stop!

PARAMETER: DECELERATION Speed V0 -> 0

This parameter is the brake-way from the drive-in speed V0 to the stop (0). The value comes automaticly by the learn drive. Nevertheless the value can be change per hand.

PARAMETER: DECELERATION SPEED V1

This parameter is the brake-way from the speed V1 to the drive-in speed V0. This value depends on the speed V1 and the deceleration in the inverter. The standart value is 500 mm.

PARAMETER: DECELERATION SPEED V2

This parameter is the brake-way from the speed V2 to the drive-in speed V0. This value depends on the speed V2 and the deceleration in the inverter. The standart value is 1000 mm.

PARAMETER : DECELERATION SPEED V3

This parameter is the brake-way from the speed V3 to the drive-in speed V0. This value depends on the speed V3 and the deceleration in the inverter. The standart value is 1500 mm.

PARAMETER: LEARN DRIVE (only with shaft-switches: pre-end- & zone-switches)

For the learn drive you can choose three speeds like, V1, V2, and V3. If you have a drive with a short distance, you should chosse speed V1. The standart value is speed V1.

PARAMETER: LEARN DRIVE ACTIVATE

If the electrical installation is ok and the software-parameters like number of floors,..., is put in, the learn-drive can be started. The car should be in a position between the first and second floor, but it must stand above the corrections witch bottom. Then the learn-drive should be started. A very concret description is in the chapter **I02-Activation of the digital shaft presentation**.

PARAMETER: COUNTDIRECTION (only with setup: without shaft-switches)

After installed ABS-encoder-system the counting direction must be determined. In addition the parameter is set to start and with beckgets or inspection drive will be driven downward.

PARAMETER: SYNCHRONISATION COUNTDIRECTION FLOOR (only: without shaft-switches)

After way collection learn, the car in the lowest floor are concise-placed and this parameter activated. Thus the control recognizes the level value of the lowest stop.

PARAMETER: UNCORRECTION (only with setup: without shaft-switches)

In this parameter can be decided between two input procedures for the level table. On the one hand the attitude " floor height" with which for each floor the value in the millimeter are registered, on the other hand the attitude "level correction" with which millimeter-uncorrection can be corrected.

PARAMETER: LEVELING FLOOR-XX

After a learn-drive, you must put in this parameter in the level-values for each floor. Here you can corrigate unlevels for every floor.

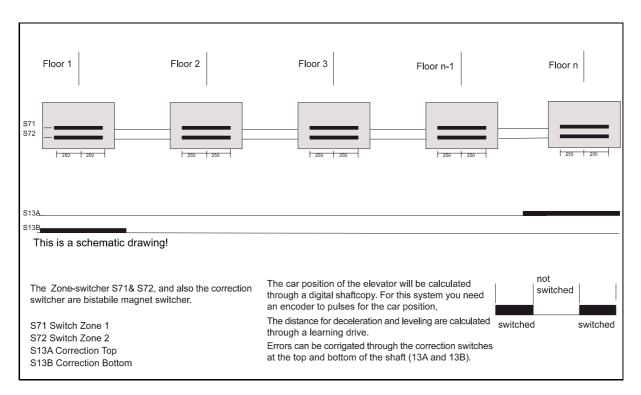


1.0 General

The motor-copy is a digital shaft-copy method, which only needs three switches in the shaft.

- S72 Zone 1
- S72 Zone 2 (Only necessarity with releveling or entry with open door)
- S13A Correctionswitch Top
- S13B Correctionswitch Bottom

All magnet-switches are biposition-switches with the corresponding round-magnet. For the pinning of the magnets you must use the elevator-rail. The pulses for the shaft-copy are coming from the resolver of the motor.



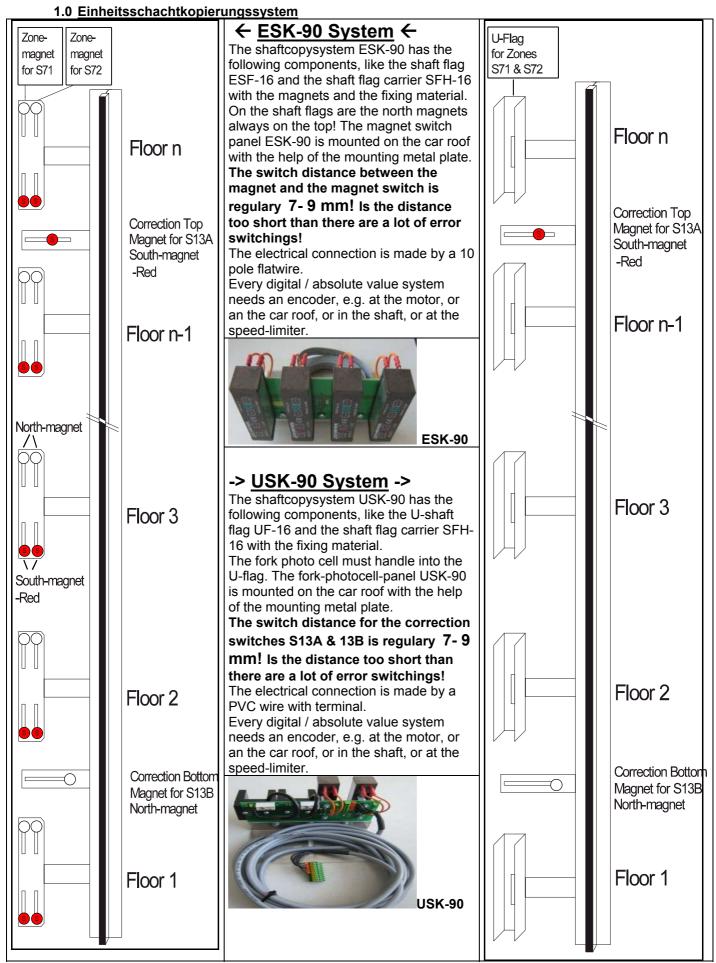
1.0 Releveling

After the learn-drive the middle of the zone-way is the value of the floor-level. This can be corrigate by the parameter "Leveling" for each floor. A change of the position of the zone-magnets is forbidden. A very concret description is in the chapter **I01-Activation of the digital shaft presentation.**

2.0 Deceleration and Correction switches

The deceleration for the drive into the destination-floor will be managed by the digital shaft-copy. The correction switches are used only for synchronize the shaft-copy-system and for a safe deceleration in the end-floors in a emergency-situation, like a failure in the digital shaft-copy. A change of the position of the correctionswitches-magnets is forbidden. A very concret description is in the chapter **I01-Activation of the digital shaft presentation.**







OPERATING MANUAL DAVID-2005

There is a pulse buffer-delay-time between 2 and 150ms. Its depends on the type of magnets, you are using. The KW-magnets only needs a delay-time of 2ms.

PARAMETER: CORRECT TRAVEL

If it comes in the shaft copying to false counting a correction trip is starts. The time of execution can take place "after call input" or immediately in "automatic" mode.

PARAMETER: 2.PRE-END-SWITCH BOTTOM

There is a golden rule that the pre-end switch bottom must be between 1 and 2. stop. If the 2 stop is a short trip stop, then the distance pre-end switch would not be sufficient down to the zone of the 1 stop with a faulty measurement to brake the carconcisely.

PARAMETER: 2.PRE-END-SWITCH TOP

There is a golden rule that the pre-end switch bottom must be between last and pre-last stop. If the pre-last stop is a short trip stop, then the distance pre-end switch would not be sufficient down to the zone of the last stop with a faulty measurement to brake the carconcisely. In this situation the 2. pre-end-switch can be placed between the pre-last- and pre-pre-last-floor.

PARAMETER: SHORT TRAVELS

With extreme short trip stops is appropriate for two stops within a zone. With this parameter it is adjusted whether this case is present and if like many of these short trip stops is present.

PARAMETER: DISTANCE PRE-END-SWITCH - ZONE BOTTOM

In this parameter the distance center magnet pre-end switch is registered down to the highest magnet of the lowest zone in mm. This value must be determined absolutely accurately. It is important for perfect functioning of the digital shaft copying.

Attention! With hydraulic, unsetteled rope and variable voltage rope plants the input the delay way of <u>both</u> direction takes place. (UP and DOWN-Direction)! With hydraulic and there however only V0 and V-fast are unsetteled rope plants to stop!

PARAMETER: DECELERATION SPEED V0

This parameter is the brake-way from the drive-in speed V0 to the stop (0). The value comes automaticly by the learn drive. Nevertheless the value can be change per hand.

PARAMETER: DECELERATION SPEED V1

This parameter is the brake-way from the speed V1 to the drive-in speed V0. This value depends on the speed V1 and the deceleration in the inverter. The standart value is 500 mm.

PARAMETER: DECELERATION V2

This parameter is the brake-way from the speed V2 to the drive-in speed V0. This value depends on the speed V2 and the deceleration in the inverter. The standart value is 1000 mm.

PARAMETER: DECELERATION V3

This parameter is the brake-way from the speed V3 to the drive-in speed V0. This value depends on the speed V3 and the deceleration in the inverter. The standart value is 1500 mm.

PARAMETER: LEARN DRIVE WITH

For the learn drive you can choose three speeds like, V1, V2, and V3. If you have a drive with a short distance, you should choose speed V1. The standart value is speed V1.

PARAMETER: ENCODER INPUT

The encoder for the shaft copying can attache on the Car (FKR) or the machine room (ZR). The location is to be registered in this parameter. As default value ZR is deposited.

PARAMETER: LERN DRIVE ACTIVATE

If the electrical installation is ok and the software-parameters like number of floors,..., is put in, the learn-drive can be started. The car should be in a position between the first and second floor, but it must stand above the correctionswitch bottom. Then the learn-drive should be started. A very concret description is in the chapter **I01-Activation of the digital shaft presentation.**

PARAMETER: SWITCH HYSTERES OVERLAPPING

After successful learning trip the value of the hysteress was determined for the shaft switches.

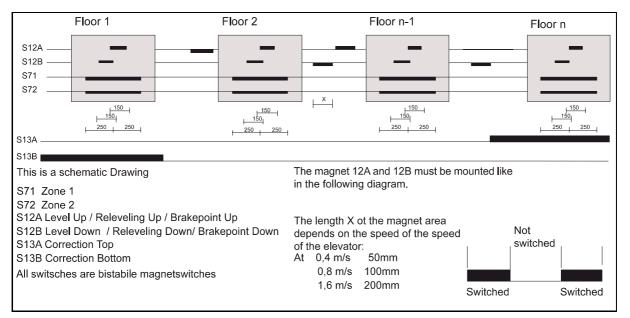
PARAMETER: LEVELING-FLOOR-XX

After a learn-drive, you must put in this parameter in the level-values for each floor. Here you can corrigate unlevels for every floor.



1.0 General

In principle 6 magnet counter are necessary with minimum copying. If the plant does not have releveling function or no entry with open door a magnet counter can be omitted i.e. S72. The concise position takes place related to the direction. All magnet counter are bistabile block switches with the appropriate round magnets. As attachment for the magnets the guide rail, as also the pit flag system can serve ESK04..



2.0 Leveling

The leveling depends on the direction. With rope-elevators without pre-opening the door the stopping in direction up is with the magnet-switch 12B, and in direction down with the magnet-switch 12A.

3.0 Brakepoints and Correction

The magnet switches 12A and 12B are also the brake-switches to drive into the destination floor. If you are driving from the second floor to the first floor you doesn't need a brake magnet! You are braking with the correction switch 13B.

The same story is the drive to the last floor. You are braking with the correction switch 13B.

PARAMETER: PULSE BUFFER DELAY

There is a pulse buffer-delay-time between 2 and 150ms. Its depends on the type of magnets, you are using. The KW-magnets only needs a delay-time of 2ms.

PARAMETER: CORRECTION TRAVEL

If it comes in the shaft copying to false countings, a correction trip goes on. The time of execution can take place "after callinput" or immediately in "automatic" mode.

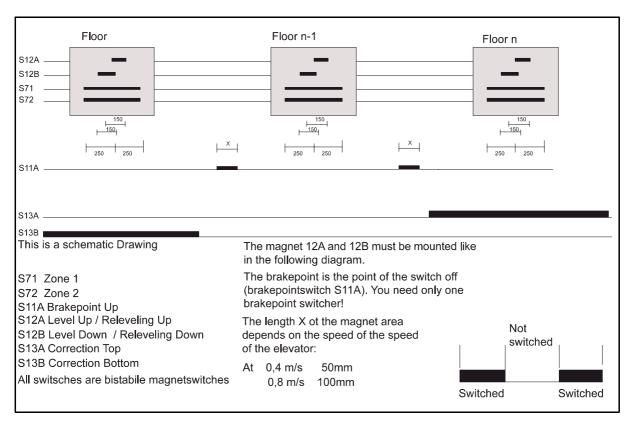


1.0 Unit shaft copying system Zone-Zone-Level-Level-Shaftcopysystem ESK04 & 02 magnet magnet magnet magnet for S71 for S72 for S12A for S12B The minimum shaftcopy can be realized with the shaft flags SFH60 and the shaft flag carrier SFH16, or you handle the mounting by fixing the magnets onto the rail of rthe elevator. Floor n SFH16 Very important is the direction of the flag and the right positioning of the magnets! Correction Top Magnet for S13A The north magnet is on the SFH16 South magnet top of the shaft flag! SFH16 **Brakepoint Down** Magnet for S12B Floor n-1 SFH16 The south magnet is red Brakepoint Up coloured. Magnet for S12A SFH16 The magnets will switch the magnet switches on SFH16 Brakepoint Down the pcb-boards ESK04 and ESK02. Magnet for S12B The pcb-board are fixed with a mounting metal plate. It would be mounted on the car roof. Floor 3 SFH16 The switch distance between the magnet and the magnet switch is regulary 7 - 9 mm! Brakepoint Up Magnet for S12A Is the switch distance to short it can be happen SFH16 that there are a lot of error switchings! Brakepoint Down SFH16 Magnet for S12B ESK02 ESK04 Floor 2 SFH16 S12A S12B S13A S13B S72 S71 Brakepoint Up SEH16 Magnet for S12A SFH16 **Correction Bottom** Magnet for S13B North magnet The electrical connection is made by a PVC-wire with terminal. Floor 1 SFH16



1.0 General

Are fundamental with the R&S copying 5 magnet counter necessarity. If the elevator does not have a releveling function or the entry with open door you can omitted the magnet counters S71 and S72. The concise position takes place related to the direction. All magnet counter are instabile block switches with the appropriate round magnets. As attachment for the magnets the guide rail also the shaft flag system can serve ESK16.



2.0 Leveling

The leveling depends on the direction. With rope-elevators without pre-opening the door the stopping in direction up is with the magnet-switch 12B, and in direction down with the magnet-switch 12A.

3.0 Brakepoints and Correction

The magnet switch 11A is the brake-switches to drive into the destination floor. If you are driving from the second floor to the first floor you doesn't need a brake magnet! You are braking with the correction switch 13B.

The same story is the drive to the last floor. You are braking with the correction switch 13B. The switch mode of S11A is the falling pulse. In cause it is possible to use only one brakepoint switch in the shaft. You can use this methode only with elevators with small speed. The half of the floor distance is the possible brake distance.

OPERATING MANUAL DAVID-2005

KW Aufzugstechnik GmbH B5 Indicate

B501- Car Indicators

<u>General</u>

The car-position of the elevator has two output-devicels, namely ZR and ITR. In both of the following parameters you can choose the output of the car-position:

- A) Parameter Car Indicate ZR
- B) Parameter Car Indicate ITR
- **C)** Description Remote Station ER

There are always 8 output-channels on both of the two units. You can choose the following codes to show the car-position:

- 1) 1 of N-Code
- 2) Binary-Code
- 3) Graycode
- 4) 7 Digits-Indicator

| Voltage +24V | Display 21h | Display 22h | Display 23h | Display 24h | Display 25h | Display 26h | Display 27h | Display 28h | GND 0V DC | Clamping+12V | Emergency light | Alert push button | Intercom | Intercom | Intercom | Intercom | Alarm contact | Alarm contact | GND 0V DC |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|--------------|-----------------|-------------------|----------|----------|----------|----------|---------------|---------------|-----------|
| 200 | IC0 | IC1 | IC2 | IC3 | IC4 | IC5 | 106 | IC7 | 500 | 100 | 101 | 103 | 602 | 603 | 604 | 605 | 30A | 30B | 500 |

| _ | Terminal 26P-Flatwire at X11-XP | | | | | | | | | | | | | | | | | | | |
|-------------|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|--|--------------|-------------|--------------|-------------|----------------|----------------|--------------|--------------|----------------|-----------|
| 200 | ID0 | ID1 | ID2 | ID3 | ID4 | ID5 | ID6 | ID7 | 500 | | 200 | IE0 | IE1 | IE2 | IE3 | IE4 | IE5 | IE6 | IE7 | 500 |
| Voltage+24V | Car Call F 1 | Car Call F 2 | Car Call F 3 | Car Call F 4 | Car Call F 5 | Car Call F 6 | Car Call F 7 | Car Call F 8 | GND 0V DC | | Voltage +24V | Door 1 open | Door 1 close | Door 2 open | Overload indi. | Button car fan | Car priority | Cab Arrow Up | Cab Arrow Down | GND 0V DC |

1 of N Code

The 1 of N code has always one output-channel for one floor indicator. Is the car in the first floor so channel 21 h is active (+24V DC).

Binarycode

In the binarycode, the floors are a combination of some outputchannels. Active channels have a "1". This means that there is a +24V DC level.

| Stop | 25h | 24h | 23h | 22h | 21h |
|-----------|-----|-----|-----|-----|-----|
| 1. Floor | 0 | 0 | 0 | 0 | 1 |
| 2. Floor | 0 | 0 | 0 | 1 | 0 |
| 3. Floor | 0 | 0 | 0 | 1 | 1 |
| 4. Floor | 0 | 0 | 1 | 0 | 0 |
| 5. Floor | 0 | 0 | 1 | 0 | 1 |
| 6. Floor | 0 | 0 | 1 | 1 | 0 |
| 7. Floor | 0 | 0 | 1 | 1 | 1 |
| 8. Floor | 0 | 1 | 0 | 0 | 0 |
| 9. Floor | 0 | 1 | 0 | 0 | 1 |
| 10. Floor | 0 | 1 | 0 | 1 | 0 |
| 11. Floor | 0 | 1 | 0 | 1 | 1 |
| 12. Floor | 0 | 1 | 1 | 0 | 0 |
| 13. Floor | 0 | 1 | 1 | 0 | 1 |
| 14. Floor | 0 | 1 | 1 | 1 | 0 |
| 15. Floor | 0 | 1 | 1 | 1 | 1 |
| 16. Floor | 1 | 0 | 0 | 0 | 0 |
| 17. Floor | 1 | 0 | 0 | 0 | 1 |



<u>Graycode</u>

In the graycode, the floors are a combination of some outputchannels. Active channels have a "1". This means that there is a +24V DC level.

| Stop | 25h | 24h | 23h | 22h | 21h |
|-----------|-----|-----|-----|-----|-----|
| 1. Floor | 0 | 0 | 0 | 0 | 1 |
| 2. Floor | 0 | 0 | 0 | 1 | 1 |
| 3. Floor | 0 | 0 | 0 | 1 | 0 |
| 4. Floor | 0 | 0 | 1 | 1 | 0 |
| 5. Floor | 0 | 0 | 1 | 1 | 1 |
| 6. Floor | 0 | 0 | 1 | 0 | 1 |
| 7. Floor | 0 | 0 | 1 | 0 | 0 |
| 8. Floor | 0 | 1 | 1 | 0 | 0 |
| 9. Floor | 0 | 1 | 1 | 0 | 1 |
| 10. Floor | 0 | 1 | 1 | 1 | 1 |
| 11. Floor | 0 | 1 | 1 | 1 | 0 |
| 12. Floor | 0 | 1 | 0 | 1 | 0 |
| 13. Floor | 0 | 1 | 0 | 1 | 1 |
| 14. Floor | 0 | 1 | 0 | 0 | 1 |
| 15. Floor | 0 | 1 | 0 | 0 | 0 |
| 16. Floor | 1 | 1 | 0 | 0 | 0 |
| 17. Floor | 1 | 1 | 0 | 0 | 1 |

7-Digits-Indicator

In the 7-Digits-code, the floors are a combination of some outputchannels. Active channels have a "1". This means that there is a +24V DC level.

| Output | | |
|--------|-----------|------------------|
| 21h | Segment a | а |
| 22h | Segment b | |
| 23h | Segment c | f b |
| 24h | Segment d | e g |
| 25h | Segment e | e ^g c |
| 26h | Segment f | 44 |
| 27h | Segment g | d |

For each floor you can choose the signs of the floor. The size of the characters and numbers is limited: -> A, b, c, d, E, F, H, U, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Programmable characterset

On the output channels 21h to 28h with ZR and ITR the active output channels can be determined freely.

Indication of the car position in spezial drives

With the modes of operation inspection, releveling, spezial trip and case of error, it can will decide whether the car permament spend all or does nothing spend.

B502- Car Arrows

Parameter Arrows

The output-channel of the car-arrows are at the carpanel-unit ITR. Here you can choose the following type of arrows:

- a) Only Direktion Arrows
- b) Direction Arrow and move-on Arrow
- c) Only move-on Arrows

DISCONNECTION OF THE MOVE ON ARROWS

You can switch off the driving on arrows on two ways.

- A) Disconnection by expiration of an adjusted time.
- B) Disconnection by closes of the doors.



Parameter Arrows

The output-channel of the car-arrows are at the car panel-unit ITR. Here you can choose the following type of arrows:

- a) Only Direktion Arrows
- b) Direction Arrow and move-on Arrow
- c) Only move-on Arrows

DISCONNECTION OF THE DRIVING ON ARROWS

You can switch off the driving on arrows on two ways.

- A) Disconnection by expiration of an adjusted time.
- B) Disconnection by closes of the doors.

B504- Gong at the Car

In the first parameter of this menu you can activate the car gong function. You can attache a miniature loudspeaker with an impedance by 8 ohms at the clamps 330 and 331 for the door side 1, as well as at the clamps 332 and 333 for the door side 2 of the FKR unit. You can select between accord, two-sound and triad gong. Additionally you can select a different sound function for the up and downwards. The following trip modes can be switched on:

- A) Car calls
- B) Landing calls
- C) Priority calls
- D) Fire-brigade enterprise
- E) Special trips

In the parameter volume you can be adjusted a value from 1 o 15, whereby 1 represents the lowest volume. The pitch can be adjusted like the volume in a range from 1 to 15. At the value 1 it concerns thereby a very deep pitch. The standart value is 7.

B505- Gong at the Floor

Like the car controller unit FKR, then also the remote station ER 2005 offer the possibility of activating the gong function. You can attache a miniature loudspeaker with an impedance by 8 ohms at the clamps 330 and 331 for the door side 1, as well as at the clamps 332 and 333 for the door side 2 of the FKR unit.

You can select between accord, two-sound and triad gong. Additionally you can select a different sound function for the up and downwards. The following trip modes can be switched on:

- A) Car calls
- B) Landing calls
- C) Priority calls
- D) Fire-brigade enterprise
- E) Special trips

In the parameter volume you can be adjusted a value from 1 o 15, whereby 1 represents the lowest volume. The pitch can be adjusted like the volume in a range from 1 to 15. At the value 1 it concerns thereby a very deep pitch. The standart value is 7.

OUTPUT ER GONG PULSE

Pulse length for gong impulse on ER adjustable: pulse, 1...10 seconds.



The car panel pcb EIT and remote station ER-2007 have RJ-12 (10-pole socket strips) sockets for the control of the matrix displays ANZ-22,-32, -33, -52 and 53.

FLOOR DISPLAY CAR & REMOTE STATION ER

For each stop a designation can be selected. The range of the letters and numbers is limited.

ARROW DISPLAY CAR

You can choose between:

- No (No expenditure for arrow)
- Yes (Standing arrow)
- Scroll (Current arrow)

SEGMENTS CAR

Depending upon selected matrix unit it can be selected whether 2 or 3 segment matrix display is to be headed for.

RUN TEXTS CAR

You can choose between: overload, evacuation, fire-brigade trip, special trip & out of operation.

ARROW DISPLAY REMOTE STATION

You can choose between:

- No (No expenditure for arrow)
- Yes (Standing arrow)
- Scroll (Current arrow)

SEGMENTS REMOTE STATION

Depending upon selected matrix unit it can be selected whether 2 or 3 segment matrix display is to be headed for.

INDICATOR FIELD REMOTE STATION

Depending upon selected matrix unit an indicator field present, which can assigned for a type-output .

RUN TEXTS REMOTE STATION

You can choose between: Overload, Evacuation, Fire-brigade trip, special trip & out of operation

CENTRAL UNIT DISPLAY

You can choose between:

- Display 1 to 32
- Display like the car



B600- Monitor-Functions

PARAMETER: CONTACTOR MONITOR

Is the contactor-monitor active, the main- and brake contactors will be controlled on two ways:

a) At the start of the travel, after a call, the main- and brake contactors will be controlled, if they switch on. If they do not switch on after a delay-time, which is in the parameter **"Start Time Monitor**", this means input-channel has a high-level, the car stopped immediately.

b) After a travel, the main- and brake contactors will be also controlled, if they have switched off. If they do not switch off, the car is blocked for the next travel. The is available between 500 ans 4000 ms.

PARAMETER: CONTACTOR MONITOR TRAVEL

If the system is blocked, you can only can turn on the system, when you switch off / on the central unit ZR or activate the parameter **C00** "**Controller-RESET**".

PARAMETER: MONITOR INSPECTION

If the special-mode "inspection-drive" or "re-send-drive" active, the monitor functions are not active.

PARAMETER: CAR LIGHT MONITOR

If the fuse of the carlight is falling out or the light of the car is going out, this means the elektrical power is sinking under 40W, then the car stops in the next floor and it will be blocked with open doors, until the light is going on. If the special-mode "inspection-drive" or "re-send-drive" active, the monitor functions are not active.

PARAMETER: START TIME MONITOR

At the start of the travel, after a call, the main- and brake contactors will be controlled, if they switch on. If they do not switch on after a delay-time, which is in the parameter **"Start Time Monitor**", the car stopped immediately. If the special-mode "inspection-drive" or "re-send-drive" active, the monitor functions are not active.

PARAMETER: JOURNEY TIME MONITOR

If in the time, which you can put in this parameter, no pulses are coming from the digital shaft-copy or there is no calculate brake-point of the floors on the way, the system will be blocked. If the special-mode "inspection-drive" or "re-send-drive" active, the monitor functions are not active.

PARAMETER: DECELATION TIME MONITOR

If in the time, which you can put in in this parameter, no zone-switch is coming from the destinationfloor, the system will be blocked. If the special-mode "inspection-drive" or "re-send-drive" active, the monitor functions are not active.

PARAMETER: STOP TIME MONITOR

If in the time, which you can put in in this parameter, no stopping is coming after the zone-switch of the destination-floor, the system will be blocked. If the special-mode "inspection-drive" or "re-send-drive" active, the monitor functions are not active.

PARAMETER: FAULT HANDLING

In this parameter there are two possibilities for the fault handling:

- a) "Stop and block" This means, if the system is blocked, you can only turn on the system, when you switch off / on the central unit ZR or activate the parameter C1 "Controller-RESET".
- **b)** "Stop and delete calls" this means, after stopping and clear the calls, you can give new calls and system tries to start.

PARAMETER: TEMPERATUR-MONITOR-MOTOR

If the input-motor PTC becomes active, an entry is made into the next stop. The car remains in this stop until the motor PTC is deactivated. With a hydraulic elevator an emergency sinking takes place in the lowest stop and following bolting device of plant, until the input-motor PTC is deactivated. If the special trip modes are active "inspection trip" or "resent drive" then the drive break and stay in this condition, until the input-motor PTC is deactivated.



If the processor-input for a brake-shoe-monitor becomes active, an entry is made into the next stop with a rope lift. The car remains in this stop until the error condition is repaired. If the special trip modes are active " inspection trip" or " resend drive", then the drive clear and remain in this condition, until the error condition is repaired.

PARAMETER: BRAKE-OPEN-MONITOR

The process of brake open and closing will be supervisor by two input-channels. If the brake is closed, there will be a voltage level of +24V DC. If the brake contactor will be actice, the voltage level fall down to 0V DC. The delay-time for monitoring is max. 4 seconds. For each coil you need one input channel.

PARAMETER: BRAKE-OPEN-MONITOR REACTION

The reaction is adjustable, an immediate emergency stop with following barriers of the elevator or only one emergency stop with deletion of the calls.

PARAMETER: BRAKE-SHOE MONITOR INPUT

The Input of the brake open monitor is switchable between the function not inverted (high active) or the inverted (low active).

PARAMETER: BRAKE-SHOE MONITOR DELAY

The time for the procedure of the brake open can be supervised maximally 6000 milliseconds.

PARAMETER: SWITCH-CABINET T-MAX

The central unit ZR has an electronic circuit for the collection of the temperature. The temperature threshold for the blocking the elevator can be placed between 30 degrees Celsius and 100 degrees Celsius. The standart value is 60 degrees Celsius. Stopping the plant means an entry with a rope elevator into the next stop. With a hydraulic elevator the execution of an emergency sinking in the lowest stop and refusal of call acceptance to the switchgear cabinet temperature below the limit value threshold sinks.

PARAMETER: SWITCH-CABINET T-MIN

Also the minimum temperature can be evaluated with the theshold value.

PTC-MOTOR TEMPERATURE

The entrance for the input-monitor PTC resistor can be adjusted as follows:

- 1) OFF
- 2) Input 1 active
- 3) Input 2 active
- 4) Input 1 + 2 active

PARAMETER DSK-IMPULSE

The impulses of the digital shaft copying are supervised in normal operation, i.e. with missing impulses of A or B-trace the lift is stopped and locked. This impuls monitoring is disconnectable.

B601- Inspection Travel

Description Inputs and Outputs of the inspection control

| Terminal | Locatio | Hardware | Function |
|----------|---------|-----------------|--|
| | n | | |
| 60 | FKR | 24V DC Input | Inspection control On/Off - This entrance serves for recognizing whether the inspection control switched on. In normal operation rests against this input +24V. Becomes those inspection control switch on then there is a 0V DC. |
| 60A | FKR | 24V DC Input | It means inspection trip UP +24V DC at this entrance that the trip desire UP lies on. This entrance is locked mutually to hardware and software with the entrance 60B. If both entrances are activated, this trip desire and/or immediate cancelling of the driving or door instructions does not have to the consequence. |
| 60B | FKR | 24V DC Input | It means inspection trip UP +24V DC at this entrance that the trip desire UP lies on. This entrance is locked mutually to hardware and software with the |



KW Aufzugstechnik GmbH **OPERATING MANUAL DAVID-2005** entrance 60A. If both entrances are activated, this trip desire and/or immediate cancelling of the driving or door instructions does not have to the consequence. 60C FKR 24V DC Hurry button- only with hydraulic elevators- with hurry button with hydraulic Input elevators the high-speed valve (on or off) is activated with inspection enterprise, if we do not drive on a pre-end switcher into final stop direction. Key can be considered only in connection with inspection of the processor. FKR 24V DC 60D Signal to the activation of the inspection contactor K60.

Description Inputs and Outputs of the resend control

| Terminal | Locatio | Hardware | Function |
|----------|---------|-----------------|---|
| | n | | |
| 61 | ZR | 24V DC Input | Return motion control On/Off - This entrance serves for recognizing whether the return motion control switched on. In normal operation rests against this entrance +24V. Becomes those remote motion control switch on then lies 0V DC. |
| 61A | ZR | 24V DC Input | It means return motion trip UP +24V DC at this entrance that the trip desire UP lies on. This entrance is locked mutually to hardware and software with the entrance 61B. If both entrances are activated, this trip desire and/or immediate cancelling of the driving or door instructions does not have to the consequence. |
| 61B | ZR | 24V DC Input | It means return motion trip UP +24V DC at this entrance that the trip desire UP lies on. This entrance is locked mutually to hardware and software with the entrance 61A. If both entrances are activated, this trip desire and/or immediate cancelling of the driving or door instructions does not have to the consequence. |
| 61D | ZR | 24V DC | Signal for activation the inspection contactor K60. |

PARAMETER RESTART LOCKING

If this parameter is activated, then the lift stops and the inspection control is off. A start-up of the control can take place either via activation of the back getting control or via RESET of the controller.

PARAMETER RESTART LOCKING DOOR

Is this parameter active, then the lift move in normal operation only, when the switching doors are opened before the inspection control is switched off.

PARAMETER SPEED BUTTON

If this parameter is activated, then the speed-push-button in the inspection case can be used.

PARAMETER: INSPECTION STOP UP

You can choose between:

1) ZONE The inspection trip is stopped with beginning of the upper zone.

2) PRE-SWITCH The inspection trip is stopped wih reaching the upper pre-switch button S13A.

B602- Emergency Light System

<u>General</u>

The emergency power equipment is integrated in that central unit controller makes with 12V a maximum river available of 1,2A. This power serves 1.1 AH Akkus, as well as for the supply of the intercom, for the supply of the 12V the alert tracer, the alert horn, the concise announcement and the emergency light.

PARAMETER: ALERT PUSH BUTTON DELAY

The alarm tracer activation can be retarded in the menu option delay alarm from one to five seconds, so that abuse and erroneous manipulation can be mostly prevented. If an error enters the lift, then the alarm delay becomes ineffective, and the notification of emergency imparted.

PARAMETER: ALERT PUSH BUTTON MISUSE PROTECTION

If Off: Alarm is released after deceleration time

If **On**: Alarm is <u>not</u> released under the following conditions:

- Elevator is located concisely in floor
- Door is open
- Elevator stands on " normal operation" (no inspection/ resend drive enterprise) There is no arror

If one of these conditions is not full filled, the alarm is release.



| | | | | Ī | | |
|-------------------------|--------------------|--|----------------------------|---|-----|-------------------------|
| Emergency light+12VDC | 101 | | | Γ | 200 | Control voltage +24V DC |
| GND 0V DC | 500 | | KW DAVID-2005 | | 200 | Control voltage +24V DC |
| Intercom +12V DC | 100 | | ZR Ebene 1 | | 200 | Control voltage +24V DC |
| Level indicator +12V DC | 100 | | | | 200 | Control voltage +24V DC |
| | | | | | 200 | Control voltage +24V DC |
| GND 0V DC | 500 | | | | 200 | Control voltage +24V DC |
| Output Alarm | 102 | | Dower Supply 241/ 2.04 May | | 500 | GND 0V DC |
| Clamping +12V DC | 100 | | Power Supply 24V 3,0A Max. | | 500 | GND 0V DC |
| Alarm button | 103 | | | | | |
| 0V Akku - | Akku- | | | | PE | Earth |
| +12V Akku+ | Akku+ | | | | L5 | Emergency power device |
| 0V Puffer Akku | GND | | Emergency power supply | | L6 | 230V AC ZR-Unit |
| +24V Puffer Akku | ESV 12V 1,2 A Max. | | | | Ν | Zero |
| | | | | | | |

B603- Car of Fan

Description of the In-& Output channels

| terminal | Pos. | Hardware | Function |
|--|------|---------------|--|
| A24 FKR Relay common Phase L5, to supply the car fan | | | |
| E24 | EIT | 24V DC Input | Input push-button car fan; A level of +24V DC means that the car fan is startet. |
| A24 | EIT | 24V DC output | If there is a level of +24V DC, is this the indicator for the running car fan. |

PARAMETER: START OF FAN

To activate the car fan, there are two possibilities:

- A) "**Push-button**" If you use the push-button of the car fan, the relay switch off and the car fan will be started. The car fan is running, until the delay time is over, or there is a second push on the button of the car fan.
- B) "**Travel**" If you choose this value, the car fan starts automaticly at the start of a travel. The fan switch off after the delay time.

PARAMETE: CAR FAN DELAY

This parameter determines the length of the hunting time of the car fan. Response time up to max. 240 seconds.



B604- Load Measure

General

In principle you can selected between two load transmitter systems. On the one hand the load sensor of the company KW can be used, on the other hand is present free- provable entrances, at which other makes can be attached by load measuring sensors.

PARAMETER: OVERLOAD IMPUT

The entrances of the overload message are switchable between the function of not inverted (high actively) or inverted (low actively).

Load Measurem. Loadsensor FKR

The KW load measuring sensor has a red ousing and has three coloured marked connection. The lines are to be presented as follows:

| Color of the connecting cable | Terminal at Car-controller |
|-------------------------------|----------------------------|
| Connecting cable green | Terminal 350 |
| Connecting cable red | Terminal 351 |
| Conneciting cable yellow | Terminal 352 |

The parameter Input FKR must be activated. Load conditions are learned over two load points. On the one hand the condition sized with empty car by activation of the menu option zero-load store. On the other hand the load point full load activated by the activation of the menu option full load store. In addition however the car must be loaded with test weights at height of the full load. The two load points 0% and 100% are now fixed. In the menu options overload, full load and less load can be individually stopped now from 0% to 150%.

FREE ENTRANCES FOR LOAD MEASURING SENSORS

Are used other load measuring sensors must the parameter entrance FKR be placed off .On the car controller FKR now the free entrance FE0 can be occupied as overload entrance and the other entrances than full load entrance, and/ or less load entrance.

LESS LOAD EVALUATION

If this parameter is activated a call threshold can be adjusted from 1 to 4 calls, during whose excess the car calls are deleted an / or ignored. An activation of this parameter is naturally only reasonable, if a less vice identification is attached.

FULL LOAD EVALUATION

If this parameter is activated, landing calls are ignored. (deletion or storage). An activation of this parameter is naturally only reasonable, if a full vice identification is attached.

B605- Standby Travel

PARAMETER: STANDBY TRAVEL

In this parameter, you can activate the standby travel. To use the standby-travel, you must put a +24V DC voltage at the input channel.

PARAMETER: STANDBY TRAVEL 1 FLOOR

One quiescent level can select at rope lifts. At the standart value is regulating the next level.

That is the fact that if while driving the +24V DC entrance for the control and light disconnection becomes active. The cab continues and open the doors and switches after a certain time the light off at the next stop. The door position is reely selectable. If the cab is not in full speed, then it remais in the stop and implements the functions described a while ago. Naturally also a certain quiescent level can be indicated. Hydraulic lifts always lower into the lowest level.

PARAMETER: STANDBY TRAVEL 2 FLOOR

Like the function before, you choose a second floor.

PARAMETER: DOOR

Here you can choose, if the doors are open or closed in the standby travel floor.



General

The mechanism of park levels at a lift serves to position or the cab / cabs to locally or temporally it can be better reacted changed flow of traffic and so the mechanical handling capacity increase. A position of cabs can be made on two ways:

1) TEMPORAL DEFINITION OF PARK LEVELS

During the mechanism of a general park level is met the following parameter attitudes.

- Parameter: Park trip
 Parameter: Floor
 Parameter: Parks after
 Parameter: Door position
 Parameter: Door position

2) DEFINITION OF THE PARK LEVELS BY INPUT SIGNALS

In the menu B72 of inputs an be specified on the free-provale entrances park stop functions for certain levels. On an input with this function tension is applied, then this even is started as park stop, as long as the input is active.

- Parameter: Park trip
- Parameter: Parks after
- Parameter. Door position
- -> Adjustable from 1 to 15 minutes, up to the departure -> Open/ Close

-> Dynamic

PARAMETER: DOOR POSITION PARKING

In the parameter B606 if the park trip was activated, then the door position can be put in the park level in this parameter. The attitudes " open" and " closed" are present, whereby " open" represents the standart value.

Temporal blockage of floors takes place with the timers from the menu B615

B607 – Floor Blocking

General

In order to regulate the flow of traffic to ensure and/ or an access control it is possible to close certain levels.

BLOCKAGE OF FLOORS BY PARAMETER ATTITUDE

The permanent blockage of levels can be met by the parameter attitudes. Landing- and car calls are erased for this floors.

PARAMETER: FLOOR BLOCKING

This parameter activated through to set the indication "*" on certain floors. These floors are closed in the further enterprise, in those determined floors closed.

PARAMETER: DYNAMIC BLOCKING

If this parameter is activated, the normal landing call handling must take place over the remote station ER. Then the call entrances at the ZR can be used for the floor blockade. The following attitudes exist:

- Only car calls
- Only landing calls -
- Car calls and landing calls _

PARAMETER: DYNAMIC BLOCKAGE ENTRANCE

You can choose between:

1) Normally With plants of a +24V of level the floor is closed

2) Inverted With plants of a 0V of level the floor is closed

Temporal blockage of floors takes place with the timers from the menu B615.



B608- Carlight switch off

PARAMETER: AUTOMATIK OFF

In general you can switch off the carlight, if the car is standing in the floor and has no calls or the car is in the parking travel floor. In this parameter you can activate this funktion.

PARAMETER: DELAY

In this parameter you can put in the delay-time. After this time, and there are no calls, the carlight will be switched off. You can put in a time from 1 to 600 seconds. The standart value is 60 seconds.

| Titel | Rang | Functions | Description |
|-------|------|------------------------------------|---|
| B611 | 1 | Fire-brigade control | The fire-brigade control is devided into two functional moduls: a) Fire-brigade priority in the 1 st , 2 nd or 3 nd fire-brigade level. |
| | | | b) Fire-brigade trip in the cab with dead man door control |
| B609 | 2 | Emergency power evacuation | The emergency power evacuation is devided in principle into two variants: a) Emergency power evacuation with single investments without sequence circuit b) Emergency power evacuation at a plant group with sequence circuit |
| B610 | 3 | Fire drop evacuations | With the case of the elevators evacuate at the same time. The fire drop evacuation is divided philosophy conditionally into two rages: a) Until three fire drop levels with different priority. Start to the levels dependently of the active alarms. b) Dynamic fire drop avacuations, which do not drive through the fire source and the car over/ unter the fire level position. |
| B612 | 5 | Rescue Travel | If the floor the obstruction rescue entrance is set actively. The car drives immediately to the stop. The car is occupied with the VIPs and drive to special level . Afterwards the car returns to the departure level. |
| | 6 | Landing control OFF | In the car the advantages entrance is set actively. (term-low) The landing and car calls are deleted and all acknowledgements of the car call aster flash up to the call input.(no time limit) After effected call input; start for this stop; afterwards again flash the achnowledgement up to the call input on switch off the code switch. |
| B613 | 7 | Leader operation | In the car the entrance for the leader enterprise is set activety (duration High). The landing and car calls are deleted, new set landing calls let the acknowledgements of the car calling aster flash up to the call input. After effected call input, start for this stop; Delete acknowledgement. |
| B23 | 8 | Car Priority | In the car the advantages entrance is set actively (Impuls) The landing calls are stored and car calls deleted; all acknowledgements of the car calls aster to flash and a call input within 20 seconds are expected. After effected call input, start for this stop; afterwards the plant is again in normal operation. |
| B24 | 9 | Landing Priority | In the floor the landing priority input is set actively. The car starts immediately the stop. The landing calls are stored; all car calls deleted; all acknowledgements of the car calls aster to flash and a call input within 20 seconds are expected. After effected call input; start for this stop; afterwards the plant is again in normal operation. |
| B614 | 10 | Obligation Stop/ hotel function | There is one main entrance level with obligation stop with passage (selectable in Up, Down & Up direction , Down direction) |

B609-614 – Special Functions



KW Aufzugstechnik GmbH Normal Operation

B609 – Emergency Power Service

General

Is the function of the emergency power service active, the signal of the input-channel 401 will be controlled. A 230V AC level means that there is a normal drive, but when there is a 0V AC level, then we have the emergency power service. The car is driving in the emergency power service floor an and all car- and landing-calls are cleared. The car is standing with open doors in this floor. If the 230 AC level on the input-channel 401 is coming back, the car is back in normal drive.

PARAMETER: ENERGENCY POWER SERVICE

In this parameter you can activate the function of the emergency power service.

PARAMETER: FLOOR

The floor of the emergency power service is freely chosen. The standart value is the first floor.

PARAMETER: PIECO BUZZER

If you activate this parameters the piezo buzzer of the carpanel-unit ITR can switch on, if there is an emergency power service travel.

PARAMETER: INPUT

The input-channel E1 can be switched up between the reaction as high active or low active.

B610 – Emergency Fire Service

Emergency Fire Service

There are the following modes:

- A) Fire drop evacuation with one fire evacuation floor (Priority-1)
- B) Fire drop evacuation with two fire evacuation floor (Priority-2)
- C) Fire drop evacuation with three fire evacuation floor (Priority-3)
- D) Dynamic fire drop evacuation with passage of the fire source
- E) Dynamic fire drop evacuation without passage of the fire source

UNTIL THREE FIRE DROP LEVELS WITH DIFFERENT PRIORITY

With fire drop evacuations it turned out that 3 fire drop floors with different priority meet the requirements with plants up to 16 stops. If the first drop entrance is active (+24V DC level) then the cab drives into the adjusted 1 fire evacuation floor and the door of the adjusted door side opens. Outside and interior control is deactivated. Further actions only after order of rank. If the +24V DC level leaves at all fire drop entrances then the plant returns automatically to normal operation. If the second fire drop entrance is active, or first and second fire drop entrance actively then into the second fire drop floor one drives. After with all fire drop entrances the + 24V DC level leaves, the plant returnes automatically to normal operation. During the 3 Fire evacuation entrance equivalent is acted. All entrances for the fire drop evaculation know High actively (normally open contacts or as Low actively (openers) o be adjusted.

DYNAMIC FIRE DROP EVACUATION

During the dynamic fire drop evaclation floor fire alarms are present in each stop. It is present a main evacuation floor, into which in principle one evacuates. The exceptions consists of the fact that it burns in the main evacuation floor or on the trip to the main evacuation floor the fire source to be driven. In the software two are present dynamic fire drop evacuations. Those can driven through the fire source the oter one stops above the fire source.

PARAMETER: OPEN DOORSIDE

In this parameter the door position is adjustable after arrival in the evacuation level. With only door side in principle the door is opened always. With two existing door sides it can be decided whether only the door side 1 or only the door side 2 or both doors are open.

PARAMETER: PIECO BUZZER

If you activate this parameters the piezo buzzer of the carpanel-unit ITR can switch on, if there is an emergency fire service travel.



The entrances of the evacuation levels and/ or the floor fire alarm are switchable between the function of a normally closer(high actively) or the opener (low actively).

B611 Fire fighter service

PARAMETER: FIREFIGHTER TRAVEL

In this parameter you can activate the function of the firefighter travel.

MAIN ENTRANCE PLACE

Pressing of the FW-code switch into on position the FW-elevator is called immediately into the main entrance place. The fire-brigade level is freely selectable in the software.

The elevator is located in a floor in stand-by (with closed doors) a direct trip to the main entrance place is automatically introduced.

If the elevator stands on a floor with open doors and the doors close immediately (Door-reverse devices are ineffective with exception of the cosing force limiter) and the elevator drives into direct trip to the main entrance place.

If the elevator is in full speed the trip is continued directly to the main entrance place. If a drive direction change is necessarity this takes place via stopping in the next possible floor without door opening. The door open racer is ineffective.

After arrival in the main entrance place the elevator open door and switches on driving basket light remains blocked.

After engagement of the FW code switch the announcement shines " for EVACUATION REQUEST ELEVATOR LEAVING" at the same time sounds a buzzer in the car. With reaching the buzzer grows silent to the main entrance place.

FIRE BRIGADE PRICE INCREASE IN THE CAR

The manipulation of the fire brigade code switch in the cab in on position causes:

- A) The announcement "EVACUATION-REQUEST ELEVATOR LEAVING" expires
- B) The announcement "FIRE BRIGADE TRIP" lighs up
- C) An unhindered input of driving instuctions is possible.
- D) The tracers "DOOR OPEN" and "DOOR CLOSE" are again activated.

A trip can be introduced by the input of a driving instruction. After input of a driving instruction the driving direction is determined. The door closes automatically and the trip is implemented.

Only one driving instruction is accepted and impented. An incorrent driving instruction input can be erased through OFF/ON-switching on of the FW code switch.

Afer arrival into the goal floor the door remains closed. The arrival gong sounds on the car. The door opening takes place after continuing pressing to the door up tracer. When releasing the tracer the door in its momentary position stops.

The door closes as long as the door tracer is operated. During input of a driving instruction the door closes automatically. The reversal of the automatically closing door is possible for registered driving instructions due to only by pressing the door open tracer, whereby the registered driving instruction is deleted.

In the car adjusted that FW key into on position i.e. the car can leave and enter in the goal stop by the FW investigation trip. The car cannot be affected from the outside e.g. the main entrance place. During the resetting of FW code switch into the position "OUT" the car drives automatically into the main entrance place.

BRITISH FIRE BRIGADE MODEL

Deviating to the German model the British model has only in use the door button "OPEN". Into the goal floor the door can be driven only pressing of "DOOR OPEN BUTTON". If the the push button "door open" is released off during the door opening, then the door drives automatically close. This is always the case, until the door drove open completely. The car door close by car call.

AUSTRALIAN FIRE BRIGADE MODEL

The Ausralian model has a fire brigade lock with three positions in the elevator car. The third position of the lock must be connected with an entrance which is occupied with the function E21 "fire brigade instruction"



OPERATING MANUAL DAVID-2005



(not realized)

B613 Leader Enterprice

PARAMETER: LEADER ENTERPRISE

If this function is activated the function of the leader enterprise becomes by manipulation interior advantages code switch in the car switch on.

- The external control is off i.e. the control does not react automatically to landing calls. Instead the lying close external calls are put on the acknowledgements of the approprite car calls.
- The elevator conductor recognizes the lying close landing calls by the bright receipts and selects the car calls.
- With entry into the floor the landing call and the appropriate acknowledgement at the car calls are deleted.

This function is not relized yet.

B614 Hotel-Obligation Stop

PARAMETER: HOTEL-OBLIGATION STOP

You can choose between:

- Upward

During all upward trips which were started below the main entrance level an obligation stop is operated in the main entrance level. At expiration of the driving on time on car call the trip continues to goal floor.

- Downward

During all downward trips which were started below the main entrance level an obligation stop is operated in the main entrance level. At expiration of the driving on time on car call the trip continues to goal floor.

- Upward and Downward
 - Functions like by upward and downward

The interior advantages code switch is operated in the car ist the function hotel obligation stop despite activation out of operation.

B615 Timerelay

PARAMETER: TIME RELAY 1

By attutude of the operating kind **Time relay 1** and definition of the activation entrance **Entrance time relay-1** and switching exit **Exit time relay-1** in the easily programmable entrances and exits of the menu B7) it is possible to solve further auxiliary functions at elevators . You can choose between:

- Suit-retarded
 - The switch-on delay is adjusable in its time.
- Waste-retarded
 - The switch-off delay is adjustable in its time.
- **Suit-retarded with impulse** The switch-on delay and the length of the impulse are adjustable
- **Waste-retarded with impulse** The switch-off delay and the length of the impulse are adjustable.

DECELERATION TIME RELAY-1

In this parameter the deceleration time can be stopped the suit and/or the waste of the time relay 1. The range of adjustment extends from 0,5 to 600 sec.

IMPULSE TIME RELAY-1

In this parameter can be positioned the temporal pulse time delay relay 1. The range of adjustment extends from 05, to 600 sec.

PARAMETER TIME RELAY-2

Equivalent one to the function under the time relay-1.

DECELERATION TIME RELAY-1

Equivalent one to the function under the time relay-1. DAVID-V125-E 29.05.2009



IMPULSE TIME RELAY-2

Equivalent one to the function under the time relay-1.

SPEEDLIMIT Vx

You can put a speedlimit Vx at which a output function goes active.

TIMER 1-10

You can choose up to 10 timers.

Timer-1: Switch-on time-1 Start-1 at xx:xx h Switch-off time-1 Stop-1 at xx:xx h Switch-on time-2 Start-2 at xx:xx h Switch-off time-2 Stop-2 at xx:xx h Weekdays: Mo Tu We Thu Fr Sa Su

The timers are assigned in with the appropriate functions / e.g. park trip; base functions)

MENU A1 SUMMER/WINTER TIME

In the menu A1 it can be adjusted whether the summer and winter time are to be set automatically. The following rules are valid for the time conversion:

For the summer time is valid:

The time conversion takes place on last Sunday in March. Around 2:00 AM the clock is introduced around one hour. That means: "The night is more briefly one hour".

For the winter time (standart time) is valid:

The time conversion takes place on last Sunday in October. Around 3:00 AM is reset the clock around one hour. That means: "The night is longer one hour"

B616 Car locking

PARAMETER: EXECUTION

In this parameter it can be adjusted whether the elevator attendant examination is activated and when it is accomplished.

- Immediately
 - The elevator attendant examination is accomplished immediately.
- Every week
 - The elevator attendant examination is accomplished each week.
- Every 2 weeks
 - The elevator attendant examination is accomplished every 2 weeks.
- Every 3 weeks
 - The elevator attendant examination is accomplished every 3 weeks.
- Every 4 weeks

The elevator attendant examination is accomplished every 4 weeks.

PARAMETER: WEEKDAY

In this parameter the weekday of execution can be positioned.

PARAMETER: TIME

In this parameter the time of the start of execution can be positioned.

PARAMETER: ACTION

You can choose between:

1. Test trip Elevator drives first into the lowest floor. Afterwards all car calls are released upward.

- If the elevator reached the highest floor all car calls is released downward.
- If the elevator achieved the lowest floor, the AW is terminated. Elevator opens The doors in lowest floor.

2. Alarm button test Control electromagnets of the alarm racer in expectation of the notification of emergency.

- All doors remain fundamental closed during the AW
 - It does not sound a gong
- AW indicated as special trip

PARAMETER: REACTION

In this parameter with incorrect result of the elevator attendant examination the following reaction is determined. To the selection stand:



OPERATING MANUAL DAVID-2005

Only message - The incorrect elevator attendant examination is noted in the error memory.
 Message & Blockade

PARAMETER: FLOOR BLOCKADE

During the elevator attendant examination all floors are started and checked for it is not ok. In this parameter it can be determined whether closed floors are also started.

PARAMETER: RESULT

In this parameter you can see the result of the last Car locking.

B617 Bolt

PARAMETER: BOLT

You can choose between:

- A) Statically- i.e. the pin boling devise is installed in the shaft and when activation can certain stops below the pin bolting device not to be started.
- B) Mobil- i.e. the pin bolting device is appropriate at the car.

PARAMETER: BOLT STATIC

In the parameter pin bolting device is deposited statically the stop in which the pin bolting device is effective.

PARAMETER : BOLT MOBIL

In the parameter pin bolting device mobilety the stops places registered the pin bolting device is active.

PARAMETER: BOLT RETRIEVING

In this parameter you can decide, the releveling is active (static).

PARAMETER: BOLT WAKE LOWERING

In this parameter you can adjust the wake. Worth 1000ms.

PARAMETER: BOLT PRESSING WAKE

In this parameter you can adjust the pressing wake. Worth 4000ms.

PARAMETER: BOLT SINKING TRIP

In this parameter you can choose the sinking trip.

The following functions must be programmed:

Input options:

- E328: if "1" then pin bolting device actively
- E329: Feedback " pins driven out"
- E330: Feedback " pins driven in"
- E364: Button- pins bring in manually (only by Resend/ Inspection and mobile mode)
- E365: Button- pins manually drive out (only by Resend/ Inspection and mobile mode)
- E366: Negative pressure (If the value is "0", the pump must bestartet in order to generate

pressure)

E367: Pressure switch off by lowering onto the bolts (mobile), at low level "0" switch off

Output options:

- A286: if "1" then pin drive out
- A287: if "1" then pin drive in
- A313: Pins move: if A286 or A287 = "1"
- A314: Pin feedback driven out (= limit switch E329)
- A315: Pin feedback driven in (= limit switch E330)

1.Statically

The bolting device pins are in a firm floor in the shaft. This floor is specified in the menu. If the bolt is activated as the first it is examined whether the elevator is located in a floor above the pins. Otherwise a trip is released there and waited until elevator is located in this floor. Now no further calls more accepted.



OPERATING MANUAL DAVID-2005

The bolts are drive out. Afterwards the calls are again acepted. All floor underneath the bolts are not any longer started is valid also for the sinking trip. With inspection and back getting enterprise the driving commends in driving direction STARTING FROM with reaching the zone switches in the bolt floor are switched off as long as the bolt is active. The bolting device can be activated or deactivated only in the image mode.

<u>2. MOBIL</u>

<u>Conditions:</u> 1) Only with DSK absolute shaft copying.

2) The zone S71 must be present

Characteristics:

1. If pit bolding device actively then none " bringing in with open Door" + no releveling

2. If actively and pins bolts given out then no sinking trip except in the case of error.

With the parameter B617- wake lowering knows the disconnection after lowering retarded become. By the fact it is possible that the rope is easily eased if the cab touches down on the bolts.

The bolting device bolts are a the car and can be driven out in each floor. If the elevator brings in from downside (putting up) into the floor the elevator holds above concise at the end of zone. Then the bolts are driven out and the elevator lower with retrieving speed into the floor.

If the elevator comes from above (Down direction) in into the floor, it holds above concise at the beginning of the zone. Then the bolt are driven out ant the elevator lower with retrieving speed into the floor. With hydraulic elevator the sinking trip is terminated if the point of concise is reached and run off the time.Before if the pressing switching off entrance becomes "LOW" (negative pressure) then also switches off, too. If the pressing switching off entrance is used then the follow-up time should be adjusted on approx 1-2 seconds (functions then only as watchdog time).

With each start the elevator with retrieving speed drives to zone-ends upward. It is all the same whether the goal stop is above or below the floor. The elevator stops there and the bolts drive in. Afterwards the trip is started into the goal floor.

Elevator stands and there are calls in the system:

- 1) If bolt is outside then the door and DSK shift-ON -> Elevator drive 50mm high
- 2) Bolt is brought in

3) If BZ-ON, then DSK shift-ON and trip to next floor

- 4) If BZ-OFF the DSK shift –OFF and trip to next door
- 5) If bolts brought in and BZ-ON, then DSK shift and start

Elevator drives into floor and the bolts are into the shelter:

1) The elevator stops about the floor in a 50 mm distance, the door remains close

2) The bolts drive out

3) DSK Shift-OFF, elevator drives concisely, door opens

B618 Codelock Calls

<u>Car Calls:</u> In every Floor you can enter only four Number (0-1-2-3-4-5-6-7-8-9)

The code becomes with programable input function E334-E344 entered. For the input of the code as the latter "#"-button is pressed. If the code was entered correctly an interior call is realeased to the appropriate and one time pieco buzzer. If the code entered wrong, so is beeped 3 times. Per depressing the key the place counter is increased. If longer than 5 seconds no depressing the key taken place or if the input is pressed then the place counter is put back.

PARAMETER: CAR CALLS

With activated parameter can be specified for how much floors a coding is necessary.

PARAMETER: CODE INPUT FLOORS 01 UP TO MAX

With activated parameter a numeric code (with four digits) fo the car call can be deposited for each floor.



| The following inputfunctions are ne | eaea: |
|-------------------------------------|---------------------|
| E334 Code-key Car Call 1 | Code- Push-button-1 |
| E335 Code-key Car Call 2 | Code- Push-button-2 |
| E336 Code-key Car Call 3 | Code- Push-button-3 |
| E337 Code-key Car Call 4 | Code- Push-button-4 |
| E338 Code-key Car Call 5 | Code- Push-button-5 |
| E339 Code-key Car Call 6 | Code- Push-button-6 |
| E340 Code-key Car Call 7 | Code- Push-button-7 |
| E341 Code-key Car Call 8 | Code- Push-button-8 |
| E342 Code-key Car Call 9 | Code- Push-button-9 |
| E343 Code-key Car Call 0 | Code- Push-button-0 |
| E344 Code-key Call # | Enter Command |

The following Inputfunctions are needed:

B7 Input/ Output

<u>General</u>

In- and Output-channels at the control system DAVID-2005 are easily programmable, i. e. the entrances are exits of the computer units ZR, ZG, FKR, EIT and ITR can be occupied freely with the most different in and base functions. In order not hae o occupy with this control system also over 350 input- and otput functions each channel separately, preemption frameworks were introduces which make a preempition possible of the channels. Nevertheless each free-programable entrance and exit with another function can be occupied. In the menu B73 I/O preemption, preemption frameworks are to you at the disposal.

A fundamental proceed is to be planned as follows:

1. In menu **B73 I/O preemption** selects after the needs fitting preemption-frame. Afterwards the entrances and exits are adapted after the control needs. This happen in the

menus B71 preemption Outputs and B72 preemption Inputs.

B71 Allocation Outputs

The outputs ZR-, ZG-, FKR-, and ITR-unit can be occupied in principle with the functions specified down.

| No. | Display represenation | Function |
|-----|---------------------------------|---|
| A0 | A00- no function | No function is assigned to the exit/relay. |
| A1 | A01-Door movement | The relay tightens during a door movement. |
| A2 | A02-Nudging | The relay tightens active function nudging with dorr latches. |
| A3 | A03-EVACUATION | The relay energizes emergency power evacuation or fire drop evacuation. |
| A4 | A04-CASE OF FIRE- EVACUATION | The relay energizes the case of fire evacuation. |
| A5 | A05-EMERGENCY POWER | The relay energizes the emergency power. |
| A6 | A06-FIRE-BRIGADE PRIORITY | The relay energizes the fire- brigade priority. |
| A7 | A07-CASE OF FIRE LEVEL | The relay energizes if the case of fire level is reached. |
| A8 | A08-EMERGENCY POWER | The relay energizes if the emrgency power level is reached. |
| A9 | A09-FIRE-BRIGADE LEVEL | The relay energizes if the fire brigade level is reached. |
| A10 | A10-DOOR FAULT | The relay falls if door fault is present. |
| A11 | A11-OUT OF OPERATION | The relax falls if out of operation is present. |
| A12 | A12-COLLECTIVE FAULT | The relay falls if motor temperature fault is present. |
| A13 | A13-MOTOR TEMPERATURE | The relay falls if the motor temperature is present. |
| A14 | A14-INSPECTION | Output if inspection service is on. |
| A15 | A15-RESENT | Output if resent service is on. |
| A16 | A16-NORMAL OPERATION | Output if normal operation service is on. |
| A17 | A17-FULL LOAD | Output if full load is on. |
| A18 | A18-OVERLOAD | Output if overload is on. |
| A19 | A19-LESS LOAD | Output if less load is on. |
| A20 | A20-PREFERENCE INSIDE | Output if preference inside is on. |
| A21 | A21-PREFERENCE OUTSIDE | Output if preference outside is on. |



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|--------------|--|--|
| A22 | A22-PREFERENCE TOTAL | Output if preference total is on. |
| A23 | A23-MOTOR FAN | Output at aktivated motor fan function. |
| A24 | A24-CAR FAN | Output at aktivated car fan function. |
| A25 | A25-CABINET FAN | Output at aktivated cabinet fan function. |
| A26 | A26-ARROW UP | Arrow output Upward. |
| A27 | A27-ARROW DOWN | Arrow output Downward. |
| A28 A29 | A28-HOLD INDICATOR A29-ENTRY SIGNAL | Output hold indicator. Output entry signal (Impuls 500ms). |
| A29 A30 | A30-LOCKED | Output locked. |
| A31 | A31-DOOR CONTROL 1 OPEN | Output looked. Output door control door 1 open. |
| A32 | A32-DOOR CONTROL 1 CLOSE | Output door control door 1 close. |
| A33 | A33-DOOR CONTROL 2 OPEN | Output door control door 2 open. |
| A34 | A34-DOOR CONTROL 2 CLOSE | Output door control door 2 close. |
| A35 | A35-SPECIAL TRIP | Output of the message spezial trip. |
| A36 | A36-RESCUE TRIP | Output of the message rescue trip. |
| A37 | | Output of the message leader enterprise. |
| A38 A39 | A38-LOBBY MONITORING A39- Car door close | The relay energizes with expiration of the adjusted time in the parameter B12. The relay energizes if at U 11 tension lies on.(car door close) |
| A40 | A40- Shaft door close | The relay energizes if at U 10 tension lies on.(shaft door close) |
| A41 | A41-out of operation invers | Output if the elevator is out of operation. |
| A42 | A42-collective fault invers | Expenditure, if the plant shows a collecting fault signal. |
| A43 | A43-releveling | Expenditure to control of the protection circuit. |
| A44 | A44-parking level reach | Expenditure if the parking level is reached. |
| A45 | A45 call messagering car fan | Expenditure call messagering at active car fan |
| A46 | A46 nudging door 1 | Expenditure of the nudging command for door 1 unter ignoring photoelectric cell |
| A47 A48 | A47 nudging door 2 A48 Car Light | Expenditure of the nudging command for door 2 unter ignoring photoelectric cell Expenditure for heading for the cab light |
| A40 A49 | A49 Car Position Indicator ZR1 | Expenditure of the cab conditions at the central unit ZR channel 1 |
| A50 | A50 Car Position Indicator ZR2 | Expenditure of the cab conditions at the central unit ZR channel 2 |
| A51 | A51 Car Position Indicator ZR3 | Expenditure of the cab conditions at the central unit ZR channel 3 |
| A52 | A52 Car Position Indicator ZR4 | Expenditure of the cab conditions at the central unit ZR channel 4 |
| A53 | A53 Car Position Indicator ZR5 | Expenditure of the cab conditions at the central unit ZR channel 5 |
| A54 | A54 Car Position Indicator ZR6 | Expenditure of the cab conditions at the central unit ZR channel 6 |
| A55 | A55 Car Position Indicator ZR7 | Expenditure of the cab conditions at the central unit ZR channel 7 |
| A56 A57 | A56 Car Position Indicator ZR8 A57 Car Position Indicator ITR1 | Expenditure of the cab conditions at the central unit ZR channel 8 Expenditure of the car position at the car calling controller ITR channel 1 |
| A58 | A58 Car Position Indicator ITR2 | Expenditure of the car position at the car calling controller ITR channel 2 |
| A59 | A59 Car Position Indicator ITR3 | Expenditure of the car position at the car calling controller ITR channel 3 |
| A60 | A60 Car Position Indicator ITR4 | Expenditure of the car position at the car calling controller ITR channel 4 |
| A61 | A61 Car Position Indicator ITR5 | Expenditure of the car position at the car calling controller ITR channel 5 |
| A62 | A62 Car Position Indicator ITR6 | Expenditure of the car position at the car calling controller ITR channel 6 |
| A63 | A63 Car Position Indicator ITR7 | Expenditure of the car position at the car calling controller ITR channel 7 |
| A64 | A64 Car Position Indicator ITR8 | Expenditure of the car position at the car calling controller ITR channel 8 |
| A65 A66 | A65 Drive Arrow Ind. Up Stop01 A66 Drive Arrow Ind. Up Stop02 | Output of the Journey-Arrow–Up for the Stop 01 Output of the Journey-Arrow–Up for the Stop 02 |
| A60 A67 | A67 Drive Arrow Ind. Up Stop02 | Output of the Journey-Arrow–Up for the Stop 02 |
| A68 | A68 Drive Arrow Ind. Up Stop04 | Output of the Journey-Arrow–Up for the Stop 04 |
| A69 | A69 Drive Arrow Ind. Up Stop05 | Output of the Journey-Arrow–Up for the Stop 05 |
| A70 | A70 Drive Arrow Ind. Up Stop06 | Output of the Journey-Arrow–Up for the Stop 06 |
| A71 | A71 Drive Arrow Ind. Up Stop07 | Output of the Journey-Arrow–Up for the Stop 07 |
| A72 | A72 Drive Arrow Ind. Up Stop08 | Output of the Journey-Arrow–Up for the Stop 08 |
| A73 | A73 Drive Arrow Ind. Up Stop09 | Output of the Journey-Arrow-Up for the Stop 09 |
| A74 A75 | A74 Drive Arrow Ind. Up Stop10 | Output of the Journey-Arrow-Up for the Stop 10 |
| A75 A76 | A75 Drive Arrow Ind. Up Stop11 A76 Drive Arrow Ind. Up Stop12 | Output of the Journey-Arrow–Up for the Stop 11 Output of the Journey-Arrow–Up for the Stop 12 |
| A77 | A77 Drive Arrow Ind. Up Stop12 | Output of the Journey-Arrow–Up for the Stop 12 |
| A78 | A78 Drive Arrow Ind. Up Stop14 | Output of the Journey-Arrow–Up for the Stop 14 |
| A79 | A79 Drive Arrow Ind. Up Stop15 | Output of the Journey-Arrow–Up for the Stop 15 |
| A80 | A80 Drive Arrow Ind. Down St.02 | Output of the Journey-Arrow–Up for the Stop 02 |
| A81 | A81 Drive Arrow Ind. Down St.03 | Output of the Journey-Arrow–Up for the Stop 03 |
| A82 | A82 Drive Arrow Ind. Down St.04 | Output of the Journey-Arrow-Up for the Stop 04 |
| A83 | A83 Drive Arrow Ind. Down St.05 | Output of the Journey-Arrow Up for the Stop 05 |
| A84 A85 | A84 Drive Arrow Ind. Down St.06 A85 Drive Arrow Ind. Down St.07 | Output of the Journey-Arrow–Up for the Stop 06 Output of the Journey-Arrow–Up for the Stop 07 |
| A85 A86 | A86 Drive Arrow Ind. Down St.07 | Output of the Journey-Arrow–Up for the Stop 07 |
| A87 | A87 Drive Arrow Ind. Down St.09 | Output of the Journey-Arrow–Up for the Stop 09 |
| A88 | A88 Drive Arrow Ind. Down St.10 | Output of the Journey-Arrow–Up for the Stop 10 |
| A89 | A89 Drive Arrow Ind. Down St.11 | Output of the Journey-Arrow–Up for the Stop 11 |
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| A90 | A90 Drive Arrow Ind. Down St.12 | Output of the Journey-Arrow–Up for the Stop 12 |
| A91 | A91 Drive Arrow Ind. Down St.13 | Output of the Journey-Arrow–Up for the Stop 13 |
| A92 | A92 Drive Arrow Ind. Down St.14 | Output of the Journey-Arrow–Up for the Stop 14 |
| A93 | A93 Drive Arrow Ind. Down St.15 | Output of the Journey-Arrow-Up for the Stop 15 |
| A94 A95 | A94 Drive Arrow Ind. Down St.16 A95 Call Messaging Up St01 | Output of the Journey-Arrow–Up for the Stop 16 Expenditure of the receipt for the landing call up for Stop 01 |
| A96 | A96 Call Messaging Up St.02 | Expenditure of the receipt for the landing call up for Stop 01 |
| A97 | A97 Call Messaging Up St.03 | Expenditure of the receipt for the landing call up for Stop 03 |
| A98 | A98 Call Messaging Up St.04 | Expenditure of the receipt for the landing call up for Stop 04 |
| A99 | A99 Call Messaging Up St.05 | Expenditure of the receipt for the landing call up for Stop 05 |
| A100 | A100 Call Messaging Up St.06 | Expenditure of the receipt for the landing call up for Stop 06 |
| A101 A102 | A101 Call Messaging Up St.07 A102 Call Messaging Up St.08 | Expenditure of the receipt for the landing call up for Stop 07 Expenditure of the receipt for the landing call up for Stop 08 |
| A102 | A103 Call Messaging Up St.09 | Expenditure of the receipt for the landing call up for Stop 09 |
| A104 | A104 Call Messaging Up St.10 | Expenditure of the receipt for the landing call up for Stop 10 |
| A105 | A105 Call Messaging Up St.11 | Expenditure of the receipt for the landing call up for Stop 11 |
| A106 | A106 Call Messaging Up St.12 | Expenditure of the receipt for the landing call up for Stop 12 |
| A107 A108 | A107 Call Messaging Up St.13 A108 Call Messaging Up St.14 | Expenditure of the receipt for the landing call up for Stop 13 Expenditure of the receipt for the landing call up for Stop 14 |
| A100 | A109 Call Messaging Up St.15 | Expenditure of the receipt for the landing call up for Stop 14 |
| A110 | A110 Call Messaging Down St.01 | Expenditure of the receipt for the landing call down for Stop 01 |
| A111 | A111 Call Messaging Down St.02 | Expenditure of the receipt for the landing call down for Stop 02 |
| A112 | A112 Call Messaging Down St.03 | Expenditure of the receipt for the landing call down for Stop 03 |
| A113 | A113 Call Messaging Down St.04 | Expenditure of the receipt for the landing call down for Stop 04 |
| A114 A115 | A114 Call Messaging Down St.05 A115 Call Messaging Down St.06 | Expenditure of the receipt for the landing call down for Stop 05 Expenditure of the receipt for the landing call down for Stop 06 |
| A116 | A116 Call Messaging Down St.07 | Expenditure of the receipt for the landing call down for Stop 00 |
| A117 | A117 Call Messaging Down St.08 | Expenditure of the receipt for the landing call down for Stop 08 |
| A118 | A118 Call Messaging Down St.09 | Expenditure of the receipt for the landing call down for Stop 09 |
| A119 | A119 Call Messaging Down St.10 | Expenditure of the receipt for the landing call down for Stop 10 |
| A120 A121 | A120 Call Messaging Down St.11 | Expenditure of the receipt for the landing call down for Stop 11 |
| A121 A122 | A121 Call Messaging Down St.12 A122 Call Messaging Down St.13 | Expenditure of the receipt for the landing call down for Stop 12 Expenditure of the receipt for the landing call down for Stop 13 |
| A123 | A123 Call Messaging Down St.14 | Expenditure of the receipt for the landing call down for Stop 14 |
| A124 | A124 Call Messaging Down St.15 | Expenditure of the receipt for the landing call down for Stop 15 |
| A125 | A125 Call Messaging Down St.16 | Expenditure of the receipt for the landing call down for Stop 16 |
| A126 | A126 maintenance doors | Output function for message maintenance doors |
| A127 A128 | A127 car arrow up A128 car errow down | Output function for car arrows up Output function for car arrows up |
| | A129 Fire brigade evacuation | Output function until the Fire brigade evacuation floor is reached |
| A130 | A130 Call Messaging D2 Up F01 | Receipt of the landing call Up for the selective door side 2 the Stop 01 |
| A131 | A131 Call Messaging D2 Up F02 | Receipt of the landing call Up for the selective door side 2 the Stop 02 |
| A132 | A132 Call Messaging D2 Up F03 | Receipt of the landing call Up for the selective door side 2 the Stop 03 |
| A133 | A133 Call Messaging D2 Up F04 | Receipt of the landing call Up for the selective door side 2 the Stop 04 |
| A134 A135 | A134 Call Messaging D2 Up F05 A135 Call Messaging D2 Up F06 | Receipt of the landing call Up for the selective door side 2 the Stop 05 Receipt of the landing call Up for the selective door side 2 the Stop 06 |
| A136 | A136 Call Messaging D2 Up F07 | Receipt of the landing call Up for the selective door side 2 the Stop 00 |
| A137 | A137 Call Messaging D2 Up F08 | Receipt of the landing call Up for the selective door side 2 the Stop 08 |
| A138 | A138 Call Messaging D2 Up F09 | Receipt of the landing call Up for the selective door side 2 the Stop 09 |
| A139 | A139 Call Messaging D2 Up F10 | Receipt of the landing call Up for the selective door side 2 the Stop 10 |
| A140 A141 | A140 Call Messaging D2 Up F11 A141 Call Messaging D2 Up F12 | Receipt of the landing call Up for the selective door side 2 the Stop 11 Receipt of the landing call Up for the selective door side 2 the Stop 12 |
| A141 A142 | A142 Call Messaging D2 Up F13 | Receipt of the landing call Up for the selective door side 2 the Stop 12 Receipt of the landing call Up for the selective door side 2 the Stop 13 |
| A143 | A143 Call Messaging D2 Up F14 | Receipt of the landing call Up for the selective door side 2 the Stop 14 |
| A144 | A144 Call Messaging D2 Up F15 | Receipt of the landing call Up for the selective door side 2 the Stop 15 |
| A145 | A145 Call Messaging D2 Dn F01 | Receipt of the landing call Down for the selective door side 2 the Stop 01 |
| A146 | A146 Call Messaging D2 Dn F02 | Receipt of the landing call Down for the selective door side 2 the Stop 02 |
| A147 A148 | A147 Call Messaging D2 Dn F03 A148 Call Messaging D2 Dn F04 | Receipt of the landing call Down for the selective door side 2 the Stop 03 Receipt of the landing call Down for the selective door side 2 the Stop 04 |
| A148 A149 | A148 Call Messaging D2 Dn F04 A149 Call Messaging D2 Dn F05 | Receipt of the landing call Down for the selective door side 2 the Stop 04 |
| A150 | A150 Call Messaging D2 Dn F06 | Receipt of the landing call Down for the selective door side 2 the Stop 06 |
| A151 | A151 Call Messaging D2 Dn F07 | Receipt of the landing call Down for the selective door side 2 the Stop 07 |
| A152 | A152 Call Messaging D2 Dn F08 | Receipt of the landing call Down for the selective door side 2 the Stop 08 |
| A153 | A153Call Messaging D2 Dn F09 | Receipt of the landing call Down for the selective door side 2 the Stop 09 |
| A154 A155 | A154 Call Messaging D2 Dn F10 A155 Call Messaging D2 Dn F11 | Receipt of the landing call Down for the selective door side 2 the Stop 10 Receipt of the landing call Down for the selective door side 2 the Stop 11 |
| A155 A156 | A155 Call Messaging D2 Dh F11 A156 Call Messaging D2 Dh F12 | Receipt of the landing call Down for the selective door side 2 the Stop 11 |
| A157 | A157 Call Messaging D2 Dn F13 | Receipt of the landing call Down for the selective door side 2 the Stop 13 |
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DAVID-V125-E



KW Aufzugstechnik GmbH **OPERATING MANUAL DAVID-2005** Receipt of the landing call Down for the selective door side 2 the Stop 14 A158 A158 Call Messaging D2 Dn F14 A159 A159 Call Messaging D2 Dn F15 Receipt of the landing call Down for the selective door side 2 the Stop 15 A160 A160 Call Messaging D2 Dn F16 Receipt of the landing call Down for the selective door side 2 the Stop 16 A161 A161 Universal Output-1 Exit of the universal channel 1 A162 Universal Output -2 Exit of the universal channel 2 A162 A163 A163 Universal Output -3 Exit of the universal channel 3 A164 A164 Universal Output -4 Exit of the universal channel 4 A165 A165 Output time relay-1 Switching exit of the time relay-1 A166 A166 Output time relay-2 Switching exit of the time relay-2 A167 A167 messaging loadtime button1 Receipt load time tracers 1 during the active phase A168 A168 messaging loadtime button2 Receipt load time tracers 2 during the active phase A169 A169 pre-control K31 The exit for the pre-end relay K31 UP is set A170 A170 pre-control K32 The exit for the pre-end relay K32 DOWN is set A171 A171 pre-control K33 The exit for the pre-end relay K33 Quick / Main is set A172 A172 pre-control K34 The exit for the pre-end relay K34 Brake/Slow/S-D is set A173 V03 from car A173 Expenditure signal of the V<V03 (entry with open door) A174 A174 V08 from car Expenditure signal of the V<V08 (entry with open door) A175 A175 Drive Commands Down Expenditure of the driving command DOWN A176 A176 Drive Commands Up Ependiture of the driving command UP A177 Drive Commands Vi A177 Expenditure of the driving command speed of Vi A178 A178 Drive Commands Vn Expenditure of the driving command speed of Vn A179 Drive Commands V0 A179 Expenditure of the driving command speed of V0 A180 A180 Drive Commands V1 Expenditure of the driving command speed of V1 A181 A181 Drive Commands V2 Expenditure of the driving command speed of V2 A182 Drive Commands V3 A182 Expenditure of the driving command speed of V3 A183 normal operation inverts Expenditure of the status message normal operation inverts= out of operation A183 A184 A 184 Pre-end switcher Up Expenditure of the entrance pre-end switcher UP aktive A185 A185 Pre-end switcher Down Expenditure of the entrance pre-end switcher DOWN aktive. A186 A186 Door closes Expenditure of the message that the door closes A187 A187 Door opens Expenditure of the message that the door openes A188 car driving Up A188 Expendure of the message taht teh car move UP A189 A189 car driving Down Expendure of the message taht teh car move DOWN A190 A190 trip counter impulse Expenditure of an impulse for the trip counter A191 A191 Drive Expenditure of the message that the elevatorin is in full swing. A192 Nudging Door 1 Expenditure of the door instruction to obligation latches of the door 1 A192 A193 Nudging Door 2 Expenditure of the door instruction to obligation latches of the door 2 A193 A194 A194 ready for use Ready for use it means that no blockade is present. A195 Calls lie close A195 Car or landing calls are worked A196 A196 Trip without Door opening Correction or park trip is present Die safety circuit contacts Shaft-& Car Door, Block (U10,11&12) are closed A197 A197 Door and Block contacts active A198 Die safety circuit contacts (U2 bis U9) are closed A198 Safety circuit actave A199 Expenditure on the remote station; Acknowledgement of the external call UP at A199 ER achnowledgement landing call Up Door 2 D2 A199 ER achnowledgement A200 Expenditure on the remote station; Acknowledgement of the external call DOWN landing call Down Door 2 at D2 A201 Expenditure of the Up-arrow on the remote station for door side 1 A201 ER Arrow Up Door 1 Expenditure of the Down-arrow on the remote station for door side 1 A202 A202 ER Arrow Down Door 1 A203 A203 ER Arrow Up Door 2 Expenditure of the Up-arror on the remote station for door side 2 A204 A203 ER Arrow Down Door 2 Expenditure of the Down-arror on the remote station for door side 2 A205 A205 light barrier blocks Expenditure of the message taht the light barrier is blocked Base function to the test of the Cedes left safety light lattice A206 A206 test SI light lattice A207 A207 safety photo cell interrupt Base function for the expenditure of a break with the cedes left safety light lattice A208 A208DSK overspeed Base function for the overspeed (only functional during digital shaft copying) A209 A209 DSK V> 0,2m/s Base function for the speed threshold V=0,2 m/s (only functional during digital shaft copying) A210 A210 DSK V<Vx (m/s) Base function for the speed threshold Vx (only functional during digital shaft copying) A211 A211 elevator attendant: Tracer Base function for the activation of the electromagnet in the alarm tracer Door Up A212 A212 elevator attendant: Tracer Base functions to the activation of the electromagnet in the door-Up-Tracer Alarm A213 A213 elevator attendant: Control Base function elevator attendant examination in order OK A214 A214 elevator attendant: Monitor Base function elevator attendant examination incorrectly error A215 Remote switcher Car Base function for the remote release of the car A215 A216 A216 Reset speed limiter Base functions for the resetting release of the car



KW Aufzugstechnik GmbH OPERATING MANUAL DAVID-2005

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| A217 | A217 Remote switcher Counterbalance | Base functions for the release of the remote release of the counterweight |
| A218 | A218 Reset speed limiter counterbalance | Base functions for the reserting release of the remote release of the counterweight |
| A219 | A219 Car-Call-M.Door.1 St.01 | Base function acknowledgement car call door side 1 Stop 1 |
| A220 | A220 Car-Call-M.Door.1 St.02 | Base function acknowledgement car call door side 1 Stop 2 |
| A221 | A221 Car-Call-M.Door.1 St.03 | Base function acknowledgement car call door side 1 Stop 3 |
| A222 | A222 Car-Call-M.Door.1 St.04 | Base function acknowledgement car call door side 1 Stop 4 |
| A223 | A223 Car-Call-M.Door.1 St.05 | Base function acknowledgement car call door side 1 Stop 5 |
| A224 | A224 Car-Call-M.Door.1 St.06 | Base function acknowledgement car call door side 1 Stop 6 |
| A225 | A225 Car-Call-M.Door.1 St.07 | Base function acknowledgement car call door side 1 Stop 7 |
| A226 | A226 Car-Call-M.Door.1 St.08 | Base function acknowledgement car call door side 1 Stop 8 |
| A227 | A227 Car-Call-M.Door.1 St.09 | Base function acknowledgement car call door side 1 Stop 9 |
| A228 | A228 Car-Call-M.Door.1 St.10 | Base function acknowledgement car call door side 1 Stop 10 |
| A229 | A229 Car-Call-M.Door.1 St.11 | Base function acknowledgement car call door side 1 Stop 11 |
| A230 | A230 Car-Call-M.Door.1 St.12 | Base function acknowledgement car call door side 1 Stop 12 |
| A231 | A231 Car-Call-M.Door.1 St.13 | Base function acknowledgement car call door side 1 Stop 13 |
| A232 | A232 Car-Call-M.Door.1 St.14 | Base function acknowledgement car call door side 1 Stop 14 |
| A233 | A233 Car-Call-M.Door.1 St.15 | Base function acknowledgement car call door side 1 Stop 15 |
| A234 | A234 Car-Call-M.Door.1 St.16 | Base function acknowledgement car call door side 1 Stop 16 |
| A235 | A235 Car-Call-M.Door.1 St.17 | Base function acknowledgement car call door side 1 Stop 17 |
| A236 | A236 Car-Call-M.Door.1 St.18 | Base function acknowledgement car call door side 1 Stop 18 |
| A237 | A237 Car-Call-M.Door.1 St.19 | Base function acknowledgement car call door side 1 Stop 19 Pase function acknowledgement car call door side 1 Stop 20 |
| A238 A239 | A238 Car-Call-M.Door.1 St.20 | Base function acknowledgement car call door side 1 Stop 20 Base function acknowledgement car call door side 1 Stop 21 |
| A239 A240 | A239 Car-Call-M.Door.1 St.21 A240 Car-Call-M.Door.1 St.22 | Base function acknowledgement car call door side 1 Stop 21 Base function acknowledgement car call door side 1 Stop 22 |
| A240 A241 | A240 Car-Call-M.Door.1 St.22 A241 Car-Call-M.Door.1 St.23 | Base function acknowledgement car call door side 1 Stop 22 Base function acknowledgement car call door side 1 Stop 23 |
| A241 A242 | A241 Car-Call-M.Door.1 St.25 A242 Car-Call-M.Door.1 St.24 | Base function acknowledgement car call door side 1 Stop 25 |
| A243 | A243 Car-Call-M.Door.1 St.24 | Base function acknowledgement car call door side 1 Stop 25 |
| A244 | A244 Car-Call-M.Door.1 St.26 | Base function acknowledgement car call door side 1 Stop 26 |
| A245 | A245 Car-Call-M.Door.1 St.27 | Base function acknowledgement car call door side 1 Stop 27 |
| A246 | A246 Car-Call-M.Door.1 St.28 | Base function acknowledgement car call door side 1 Stop 28 |
| A247 | A247 Car-Call-M.Door.1 St.29 | Base function acknowledgement car call door side 1 Stop 29 |
| A248 | A248 Car-Call-M.Door.1 St.30 | Base function acknowledgement car call door side 1 Stop 30 |
| A249 | A249 Car-Call-M.Door.1 St.31 | Base function acknowledgement car call door side 1 Stop 31 |
| A250 | A250 Car-Call-M.Door.1 St.32 | Base function acknowledgement car call door side 1 Stop 32 |
| A251 | A251 Car-Call-M.Door.2 St.01 | Base function acknowledgement car call door side 2 Stop 1 |
| A252 | A252 Car-Call-M.Door.2 St.02 | Base function acknowledgement car call door side 2 Stop 2 |
| A253 | A253 Car-Call-M.Door.2 St.03 | Base function acknowledgement car call door side 2 Stop 3 |
| A254 | A254 Car-Call-M.Door.2 St.04 | Base function acknowledgement car call door side 2 Stop 4 |
| A255 | A255 Car-Call-M.Door.2 St.05 | Base function acknowledgement car call door side 2 Stop 5 |
| A256 | A256 Car-Call-M.Door.2 St.06 | Base function acknowledgement car call door side 2 Stop 6 |
| A257 | A257 Car-Call-M.Door.2 St.07 | Base function acknowledgement car call door side 2 Stop 7 |
| A258 | A258 Car-Call-M.Door.2 St.08 | Base function acknowledgement car call door side 2 Stop 8 |
| A259 | A259 Car-Call-M.Door.2 St.09 | Base function acknowledgement car call door side 2 Stop 9 |
| A260 | A260 Car-Call-M.Door.2 St.10 | Base function acknowledgement car call door side 2 Stop 10 |
| A261 | A261 Car-Call-M.Door.2 St.11 | Base function acknowledgement car call door side 2 Stop 11 |
| A262 | A262 Car-Call-M.Door.2 St.12 | Base function acknowledgement car call door side 2 Stop 12 |
| A263 A264 | A263 Car-Call-M.Door.2 St.13 A264 Car-Call-M.Door.2 St.14 | Base function acknowledgement car call door side 2 Stop 13 Base function acknowledgement car call door side 2 Stop 14 |
| A264 A265 | A265 Car-Call-M.Door.2 St.14 A265 Car-Call-M.Door.2 St.15 | Base function acknowledgement car call door side 2 Stop 14 Base function acknowledgement car call door side 2 Stop 15 |
| A265 | A266 Car-Call-M.Door.2 St.15 | Base function acknowledgement car call door side 2 Stop 15 |
| A200 A267 | A260 Car-Call-M.Door.2 St. 10 A267 Car-Call-M.Door.2 St.17 | Base function acknowledgement car call door side 2 Stop 10 Base function acknowledgement car call door side 2 Stop 17 |
| A268 | A268 Car-Call-M.Door.2 St.17 | Base function acknowledgement car call door side 2 Stop 17 Base function acknowledgement car call door side 2 Stop 18 |
| A269 | A269 Car-Call-M.Door.2 St.19 | Base function acknowledgement car call door side 2 Stop 10 |
| A203 | A270 Car-Call-M.Door.2 St. 19 | Base function acknowledgement car call door side 2 Stop 19 |
| A271 | A271 Car-Call-M.Door.2 St.20 | Base function acknowledgement car call door side 2 Stop 20 |
| A272 | A272 Car-Call-M.Door.2 St.22 | Base function acknowledgement car call door side 2 Stop 21 |
| A273 | A273 Car-Call-M.Door.2 St.23 | Base function acknowledgement car call door side 2 Stop 23 |
| A274 | A274 Car-Call-M.Door.2 St.24 | Base function acknowledgement car call door side 2 Stop 24 |
| A275 | A275 Car-Call-M.Door.2 St.25 | Base function acknowledgement car call door side 2 Stop 25 |
| A276 | A276 Car-Call-M.Door.2 St.26 | Base function acknowledgement car call door side 2 Stop 26 |
| A277 | A277 Car-Call-M.Door.2 St.27 | Base function acknowledgement car call door side 2 Stop 27 |
| A278 | A278 Car-Call-M.Door.2 St.28 | Base function acknowledgement car call door side 2 Stop 28 |
| A279 | A279 Car-Call-M.Door.2 St.29 | Base function acknowledgement car call door side 2 Stop 29 |
| A280 | A280 Car-Call-M.Door.2 St.30 | Base function acknowledgement car call door side 2 Stop 30 |
| A281 | A281 Car-Call-M.Door.2 St.31 | Base function acknowledgement car call door side 2 Stop 31 |
| A282 | A282 Car-Call-M.Door.2 St.32 | Base function acknowledgement car call door side 2 Stop 32 |
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KW Aufzugstechnik GmbH **OPERATING MANUAL DAVID-2005** A283 A283 Fine releveling Up To the control of a fine retrieving aggregate driving direction Up A284 Fine releveling Up To the control of a fine retrieving aggregate driving direction down A284 A285 A285 Brake monitor Aktiv of error lies close A286 A286 Bolt drive out Pit bolting device A287 A287 Bolt drive out Pit bolting device A288 A288 Elevator at the lowest stop Active if t he elevator is in the lowest stop A289 A289 elevator drive in the lowest Active by driving in the lowest drive stop A290 Time to go Down A290 Output channel is high (+24V), if thecar is lowering A291 A291 Door 2 Closes OTIS-REM 5.0 A292 A292 Door 2 Opens OTIS-REM 5.0 A293 A293 Car Position Indicator ZR9 Exediture for driving car condition Stop9 for 1 of N A294 A294 Car Position Indicator ZR10 Exediture for driving car condition Stop10 for 1 of N A295 A295 Car Position Indicator ZR11 Exediture for driving car condition Stop11 for 1 of N A296 A296 Car Position Indicator ZR12 Exediture for driving car condition Stop12 for 1 of N A297 A297 Position motor close drive Exit is deleted set if on high speed away and if E355= "1" (Hyd-OTIS) A298 A298 level is OK if concise then "1" A299 A299 Trafic light inside D1 Green= if the door open A300 A300 Trafic light inside D2 Green= if the door open A301 A301 Trafic light outside E01 D1 Green= if the door open + Car empty A302 A301 Trafic light outside E01 D2 Green= if the door open + Car empty A301 Trafic light outside E02 D1 Green= if the door open + Car empty A303 A304 A301 Trafic light outside E02 D2 Green= if the door open + Car empty A305 A301 Trafic light outside E03 D1 Green= if the door open + Car empty A306 A301 Trafic light outside E03 D2 Green= if the door open + Car empty A307 A301 Trafic light outside E04 D1 Green= if the door open + Car empty A308 A301 Trafic light outside E04 D2 Green= if the door open + Car empty voice output A309 ☺ A309 Door 1 closes IMPULS A310 © A310 Door 1 opens IMPULS voice output ☺ A311 Door 2 closes IMPULS voice output A311 ⊙ A312 Door 2 opens IMPULS A312 voice output A313 A313 Bolt move To control the contactor of the hydraulic motor A314 A314 bolt drive out Feedback A315 A315 Bolt drive in Feedback A316 Timer-1 A316 Time switch clock with 2 thresholds A317 A317 Timer-2 Time switch clock with 2 thresholds A318 A318 Timer-3 Time switch clock with 2 thresholds A319 Timer-4 A319 Time switch clock with 2 thresholds A320 A320 Timer-5 Time switch clock with 2 thresholds A321 A321 Timer-6 Time switch clock with 2 thresholds A322 A322 Timer-7 Time switch clock with 2 thresholds A323 A323 Timer-8 Time switch clock with 2 thresholds A324 A324 Timer-9 Time switch clock with 2 thresholds A325 A325 Timer-10 Time switch clock with 2 thresholds A326 A326 Catch rescue A327 A327 Car Indication 1 of N Floor 13 A328 A328 Car Indication 1 of N Floor 14 Floor 15 A329 A329 Car Indication 1 of N Floor 16 A330 A330 Car Indication 1 of N A331 A331 Car Indication 1 of N Floor 17 A332 A332 Car Indication 1 of N Floor 18 A333 A333 Car Indication 1 of N Floor 19 A334 Car Indication 1 of N Floor 20 A334 A335 A335 Car Indication 1 of N Floor 21 A336 A336 Car Indication 1 of N Floor 22 A337 A337 Car Indication 1 of N Floor 23 Floor 24 A338 A338 Car Indication 1 of N Floor 25 A339 A339 Car Indication 1 of N A340 A340 Car Indication 1 of N Floor 26 Floor 27 A341 A341 Car Indication 1 of N A342 Car Indication 1 of N Floor 28 A342 A343 Car Indication 1 of N Floor 29 A343 Floor 30 A344 A344 Car Indication 1 of N Floor 31 A345 A345 Car Indication 1 of N A346 A346 Car Indication 1 of N Floor 32 A347 A347 Watchdog timing Expenditure of the message in the case of active error watching timing A348 A348 Emergency Stop U9 Expenditure of the message in the case of active emergency stop.



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| A349 | A349 NBS | Drive signale to control the NBS-TSBrake with 1 Sec. delaytime |
| A350 | A350 Door Open Button | Expenditure of the active door up tracer during the door play. |
| A351 | A351 2 Seconds pulse Codekey | |
| A352 | A352 Door-Closed and Drive | |



The Inputs ZR-, ZG-, FKR-, and ITR-unit can be occupied in principle with the functions specified down.

| No. Display Representation Function E0 E00- NO FUNCTION No function is assigned to the entrance. | |
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| E1 E01- EMERGENCY POWER OPERATION Entrance for the message of the emergency | y power operation |
| E2 E02- EMERGENCY POWER DRIVE Entrance for the beginning of the emergence | cy power trip |
| E3 E03- START LOCKING Entrance for the barrier of the restart | |
| E4 E04-AGAIN IN ENTERPRISE Entrance for the restarting operation of the | |
| E5 E05- CAB LIGHT OFF Entrance for the disconnection of the cab lig | |
| E6 E06-Release regulation Entrance for the automatic controller messa | age release |
| E7 E07-Stop regulation Entrance for the automatic controller messa | age stop |
| E8 E08-Disturbance regulation Entrance for the automatic controller messa | |
| E9E09-Si-circuit zoneEntrance for the message of the protection | |
| E10 E10-Si-Circuit status Entrance for the message of the protection | circuit over your status |
| E11 E11-Overload Entrance for the overload message | |
| E12 E12-Full load Entrance for the full load message | |
| E13 E13-Less load Entrance for the less message | |
| E14 E14- Contact monitoring Entrance for the contactor feedback | |
| E15 E15- External control off Entrance for switching the external control of | |
| E16 E16-/control & Light off/ Entrance for switching the control and teh c | |
| E17 E17-Fire brigade outside 1 Priorität Entrance for the FW lock for landing call 1.t | |
| E18 E18-Fire brigade outside 2 Priorität Entrance for the FW lock for landing call 2.t | |
| E19 E19-Fire brigade outside 3 Priorität Entrance for the FW lock for landing call 3.t | h floor |
| E20 E20-Fire-brigade inside Entrance for the FW lock in the cab | |
| E21 E21-Fire-brigade instruction Entrance for the KW control after Australier | n model |
| E22 E22-Ramp trip Entrance for the ramp trip | |
| E23 E23- Leader enterprise Entrance for the switch for the leader enterprise | |
| E24 E24- Traser ventilator Entrance for the tracer for the activation of the tracer for the tracer for the activation of the tracer for the tracer for the activation of the tracer for the tracer for the activation of the tracer for the tracer for the activation of the tracer for the tracer for the activation of the tracer for the tracer | the cab exhaust |
| E25 E25- Brake ventilating monitoring Entrance for the brakeventilation monitoring | g opening & Latches brake |
| E26 E26-Brake wear monitoring Entrance for the monitoring of the brake lini | |
| E27 E27-maintenance doors close Entrance for the activation of the catch of the | ne doors for 15 minutes |
| E28 E-28 Call lowest HS Entrance for the call of the lowest floor | |
| E29 E29- Call highest HS Entrance for the call of the highest floor | |
| E30 E30-Rescue trip Entrance for teh rescue trip | |
| E31 E31-Lobby control D1 Entrance of the lobby monitor of the door 1 | |
| E32 E32-Lobby control D1 Entrance of the lobby monitor of the door 2 | |
| E33 E33-Button Door 1 Open Entrance for the tracer door 1 open | |
| E34 E34-Button Door 1 Close Entrance for the tracer door 1 close | |
| E35 E35-Button Door 2 Open Entrance for the tracer door 2 open | |
| E36 E33-Button Door 2 Close Entrance for the tracer door 2 close | |
| E37 E37-Load time tracer door 1 Entrance for the load time tracer door 1 | |
| E38 E38Load time tracer door 2 Entrance for the load time tracer door 2 | |
| E39 E39- Disconnection group Entrance for extracting an elevator from the | |
| E40 E40- Fire drop level Prioritat 1 Entrance for the fire drop evaclation into the | |
| E41 E40- Fire drop level Prioritat 2 Entrance for the fire drop evaclation into the | |
| E42 E40- Fire drop level Prioritat 3 Entrance for the fire drop evaclation into the | |
| E43 E43- Fire Detector St.01 Entrance for floor fire alarms of the Stop 01 | |
| E44 E44- Fire Detector St.02 Entrance for floor fire alarms of the Stop 02 | |
| E45 E45- Fire Detector St.03 Entrance for floor fire alarms of the Stop 03 | |
| E46 E46- Fire Detector St.04 Entrance for floor fire alarms of the Stop 04 | |
| E47 E47- Fire Detector St.05 Entrance for floor fire alarms of the Stop 05 | |
| E48 E48- Fire Detector St.06 Entrance for floor fire alarms of the Stop 06 | |
| E49 E49- Fire Detector St.07 Entrance for floor fire alarms of the Stop 07 | |
| E50 E50- Fire Detector St.08 Entrance for floor fire alarms of the Stop 08 | |
| E51 E51- Fire Detector St.09 Entrance for floor fire alarms of the Stop 09 | |
| E52 E52- Fire Detector St.10 Entrance for floor fire alarms of the Stop 10 | |
| E53 E53- Fire Detector St.11 Entrance for floor fire alarms of the Stop 11 | |
| E54 E54- Fire Detector St.12 Entrance for floor fire alarms of the Stop 12 | |
| E55 E55- Fire Detector St.13 Entrance for floor fire alarms of the Stop 13 | |
| E56 E56- Fire Detector St.14 Entrance for floor fire alarms of the Stop 14 | |
| E57 E57- Fire Detector St.15 Entrance for floor fire alarms of the Stop 15 | |
| E58 E58- Fire Detector St.16 Entrance for floor fire alarms of the Stop 16 | |
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| E59 E59- Fire Detector St.17 Entrance for floor fire alarms of the Stop 17 | |
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| E62 | E62- Fire Detector St.20 | Entrance for floor fire alarms of the Stop 20 |
| E63 | E63- Fire Detector St.21 | Entrance for floor fire alarms of the Stop 21 |
| E64 | E64- Fire Detector St.22 | Entrance for floor fire alarms of the Stop 22 |
| E65 | E65- Fire Detector St.23 | Entrance for floor fire alarms of the Stop 23 |
| E66 | E66- Fire Detector St.24 | Entrance for floor fire alarms of the Stop 24 |
| E67 | E67- Fire Detector St.25 | Entrance for floor fire alarms of the Stop 25 |
| E68 | E68- Fire Detector St.26 | Entrance for floor fire alarms of the Stop 26 |
| E69 | E69- Fire Detector St.27 | Entrance for floor fire alarms of the Stop 27 |
| E70 | E70- Fire Detector St.28 | Entrance for floor fire alarms of the Stop 028 |
| E71 | E71- Fire Detector St.29 | Entrance for floor fire alarms of the Stop 29 |
| E72 | E72- Fire Detector St.30 | Entrance for floor fire alarms of the Stop 30 |
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| E73 | E73- Fire Detector St.31 | Entrance for floor fire alarms of the Stop 31 |
| E74 | E74- Fire Detector St.32 | Entrance for floor fire alarms of the Stop 32 |
| E75 | E75- Floor Blockade St.01 | Entrance for the flor blockade of the Stop 01 |
| E76 | E76- Floor Blockade St.02 | Entrance for the flor blockade of the Stop 02 |
| E77 | E77- Floor Blockade St.03 | Entrance for the flor blockade of the Stop 03 |
| E78 | E78- Floor Blockade St.04 | Entrance for the flor blockade of the Stop 04 |
| E79 | E79- Floor Blockade St.05 | Entrance for the flor blockade of the Stop 05 |
| E80 | E80- Floor Blockade St.06 | Entrance for the flor blockade of the Stop 06 |
| E81 | E81- Floor Blockade St.07 | Entrance for the flor blockade of the Stop 07 |
| E82 | E82- Floor Blockade St.08 | Entrance for the flor blockade of the Stop 08 |
| E83 | E83- Floor Blockade St.09 | Entrance for the flor blockade of the Stop 09 |
| E84 | E84- Floor Blockade St.10 | Entrance for the flor blockade of the Stop 10 |
| E85 | E85- Floor Blockade St.11 | Entrance for the flor blockade of the Stop 11 |
| E86 | E86- Floor Blockade St.12 | Entrance for the flor blockade of the Stop 12 |
| E87 | E87- Floor Blockade St.13 | Entrance for the flor blockade of the Stop 12 |
| E88 | E88- Floor Blockade St. 14 | Entrance for the flor blockade of the Stop 14 |
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| E89 | E89- Floor Blockade St.15 | Entrance for the flor blockade of the Stop 15 |
| E90 | E90- Floor Blockade St.16 | Entrance for the flor blockade of the Stop 16 |
| E91 | E91- Floor Blockade St.17 | Entrance for the flor blockade of the Stop 17 |
| E92 | E92- Floor Blockade St.18 | Entrance for the floor blockade of the Stop 18 |
| E93 | E93- Floor Blockade St.19 | Entrance for the floor blockade of the Stop 19 |
| E94 | E94- Floor Blockade St.20 | Entrance for the floor blockade of the Stop 20 |
| E95 | E95- Floor Blockade St.21 | Entrance for the floor blockade of the Stop 21 |
| E96 | E96- Floor Blockade St.22 | Entrance for the floor blockade of the Stop 22 |
| E97 | E97- Floor Blockade St.23 | Entrance for the floor blockade of the Stop 23 |
| E98 | E98- Floor Blockade St.24 | Entrance for the floor blockade of the Stop 24 |
| E99 | E99- Floor Blockade St.25 | Entrance for the floor blockade of the Stop 25 |
| E100 | E100- Floor Blockade St.26 | Entrance for the floor blockade of the Stop 26 |
| E101 | E101- Floor Blockade St.27 | Entrance for the floor blockade of the Stop 27 |
| E102 | E102- Floor Blockade St.28 | Entrance for the floor blockade of the Stop 28 |
| E102 | E103- Floor Blockade St.29 | Entrance for the floor blockade of the Stop 29 |
| E103 | E104- Floor Blockade St.30 | Entrance for the floor blockade of the Stop 30 |
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| E105 | E105- Floor Blockade St.31 | Entrance for the floor blockade of the Stop 31 |
| E106 | E106- Floor Blockade St.32 | Entrance for the floor blockade of the Stop 32 |
| E107 | E107- Parking Floor St.01 | Entrance for start to the park Stop 01 |
| E108 | E108- Parking Floor St.02 | Entrance for start to the park Stop 02 |
| E109 | E109- Parking Floor St.03 | Entrance for start to the park Stop 03 |
| E110 | E110- Parking Floor St.04 | Entrance for start to the park Stop 04 |
| E111 | E111- Parking Floor St.05 | Entrance for start to the park Stop 05 |
| E112 | E112- Parking Floor St.06 | Entrance for start to the park Stop 06 |
| E113 | E113- Parking Floor St.07 | Entrance for start to the park Stop 07 |
| E114 | E114- Parking Floor St.08 | Entrance for start to the park Stop 08 |
| E115 | E115- Parking Floor St.09 | Entrance for start to the park Stop 09 |
| E116 | E116- Parking Floor St.10 | Entrance for start to the park Stop 01 |
| E117 | E117- Parking Floor St.11 | Entrance for start to the park Stop 01 |
| E117 | E118- Parking Floor St.12 | Entrance for start to the park Stop 12 |
| E110 E119 | | |
| | E119- Parking Floor St.13 | Entrance for start to the park Stop 13 |
| E120 | E120- Parking Floor St.14 | Entrance for start to the park Stop 14 |
| E121 | E121- Parking Floor St.15 | Entrance for start to the park Stop 15 |
| E122 | E122- Parking Floor St.16 | Entrance for start to the park Stop 16 |
| E123 | E123- Parking Floor St.17 | Entrance for start to the park Stop 17 |
| E124 | E124- Parking Floor St.18 | Entrance for start to the park Stop 18 |
| E125 | E125- Parking Floor St.19 | Entrance for start to the park Stop 19 |
| E126 | E126- Parking Floor St.20 | Entrance for start to the park Stop 20 |
| E127 | E127- Parking Floor St.21 | Entrance for start to the park Stop 21 |
| E128 | E128- Parking Floor St.22 | Entrance for start to the park Stop 22 |
| E129 | E129- Parking Floor St.23 | Entrance for start to the park Stop 23 |
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| E130 | E130- Parking Floor St.24 | OPERATING MANUAL DAVID-2005 Entrance for start to the park Stop 24 |
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| E130 | E130- Parking Floor St.24 E131- Parking Floor St.25 | Entrance for start to the park Stop 25 |
| E132 | E132- Parking Floor St.26 | Entrance for start to the park Stop 26 |
| E133 | E133- Parking Floor St.27 | Entrance for start to the park Stop 27 |
| E134 | E134- Parking Floor St.28 | Entrance for start to the park Stop 28 |
| E135 | E135- Parking Floor St.29 | Entrance for start to the park Stop 29 |
| E136 | E136- Parking Floor St.30 | Entrance for start to the park Stop 30 |
| E137 | E137- Parking Floor St.31 | Entrance for start to the park Stop 31 |
| E138 | E138- Parking Floor St.32 | Entrance for start to the park Stop 32 |
| E139 E140 | E139- Landing Priority St.01 E140- Landing Priority St.02 | Entrance for the landing priority in the Stop 01 Entrance for the landing priority in the Stop 02 |
| E140 | E140- Landing Priority St.02 | Entrance for the landing priority in the Stop 02 |
| E142 | E142- Landing Priority St.04 | Entrance for the landing priority in the Stop 04 |
| E143 | E143- Landing Priority St.05 | Entrance for the landing priority in the Stop 05 |
| E144 | E144- Landing Priority St.06 | Entrance for the landing priority in the Stop 06 |
| E145 | E145- Landing Priority St.07 | Entrance for the landing priority in the Stop 07 |
| E146 | E146- Landing Priority St.08 | Entrance for the landing priority in the Stop 08 |
| E147 | E147- Landing Priority St.09 | Entrance for the landing priority in the Stop 09 |
| E148 | E148- Landing Priority St.10 | Entrance for the landing priority in the Stop 10 |
| E149 | E149- Landing Priority St.11 | Entrance for the landing priority in the Stop 11 |
| E150 E151 | E150- Landing Priority St.12 | Entrance for the landing priority in the Stop 12 |
| E151 E152 | E151- Landing Priority St.13 E152- Landing Priority St.14 | Entrance for the landing priority in the Stop 13 Entrance for the landing priority in the Stop 14 |
| E152 | E153- Landing Priority St. 15 | Entrance for the landing priority in the Stop 15 |
| E154 | E154- Landing Priority St. 16 | Entrance for the landing priority in the Stop 16 |
| E155 | E155- Landing Call Up St.01 | Input for the landing call Up in the Stop 1 |
| E156 | E156- Landing Call Up St.02 | Input for the landing call Up in the Stop 2 |
| E157 | E157- Landing Call Up St.03 | Input for the landing call Up in the Stop 3 |
| E158 | E158- Landing Call Up St.04 | Input for the landing call Up in the Stop 4 |
| E159 | E159- Landing Call Up St.05 | Input for the landing call Up in the Stop 5 |
| E160 | E160- Landing Call Up St.06 | Input for the landing call Up in the Stop 6 |
| E161 E162 | E161- Landing Call Up St.07 E162- Landing Call Up St.08 | Input for the landing call Up in the Stop 7 Input for the landing call Up in the Stop 8 |
| E163 | E163- Landing Call Up St.09 | Input for the landing call Up in the Stop 9 |
| E164 | E164- Landing Call Up St.10 | Input for the landing call Up in the Stop 10 |
| E165 | E165- Landing Call Up St.11 | Input for the landing call Up in the Stop 11 |
| E166 | E166- Landing Call Up St.12 | Input for the landing call Up in the Stop 12 |
| E167 | E167- Landing Call Up St.13 | Input for the landing call Up in the Stop 13 |
| E168 | E168- Landing Call Up St.14 | Input for the landing call Up in the Stop 14 |
| E169 E170 | E169- Landing Call Up St.15 E170- Landing Call Down St.01 | Input for the landing call Up in the Stop 15 Input for the landing call Down in the Stop 1 |
| E170 | E171- Landing Call Down St.01 | Input for the landing call Down in the Stop 1 |
| E172 | E172- Landing Call Down St.02 | Input for the landing call Down in the Stop 2 |
| E173 | E173- Landing Call Down St.04 | Input for the landing call Down in the Stop 4 |
| E174 | E174- Landing Call Down St.05 | Input for the landing call Down in the Stop 5 |
| E175 | E175- Landing Call Down St.06 | Input for the landing call Down in the Stop 6 |
| E176 | E176- Landing Call Down St.07 | Input for the landing call Down in the Stop 7 |
| E177 | E177- Landing Call Down St.08 | Input for the landing call Down in the Stop 8 |
| E178 | E178- Landing Call Down St.09 | Input for the landing call Down in the Stop 9 |
| E179 E180 | E179- Landing Call Down St.10 E180- Landing Call Down St.11 | Input for the landing call Down in the Stop 10 Input for the landing call Down in the Stop 11 |
| E180 | E180- Landing Call Down St.12 | Input for the landing call Down in the Stop 11 |
| E182 | E182- Landing Call Down St.12 | Input for the landing call Down in the Stop 13 |
| E183 | E183- Landing Call Down St.14 | Input for the landing call Down in the Stop 14 |
| E184 | E184- Landing Call Down St.15 | Input for the landing call Down in the Stop 15 |
| E185 | E185- Landing Call Down St.16 | Input for the landing call Down in the Stop 16 |
| E186 | E186 /Car priority/ | Input function for the car priorty |
| E187 | E187 Safety photo cell | Input function for safety photo cell with special switching |
| E188 | E188 - Landing Priority D.2 St.01 | Entrance landing priority the selective door 2 in the stop 01 |
| E189 | E189 - Landing Priority D.2 St.02 | Entrance landing priority the selective door 2 in the stop 02 |
| E190 E191 | E190 - Landing Priority D.2 St.03 E191 - Landing Priority D.2 St.04 | Entrance landing priority the selective door 2 in the stop 03 Entrance landing priority the selective door 2 in the stop 04 |
| E191 E192 | E191 - Landing Priority D.2 St.04 E192 - Landing Priority D.2 St.05 | Entrance landing priority the selective door 2 in the stop 04 |
| E192 | E193 - Landing Priority D.2 St.06 | Entrance landing priority the selective door 2 in the stop 06 |
| E194 | E194 - Landing Priority D.2 St.07 | Entrance landing priority the selective door 2 in the stop 07 |
| E195 | E195 - Landing Priority D.2 St.08 | Entrance landing priority the selective door 2 in the stop 08 |
| E196 | E196 - Landing Priority D.2 St.09 | Entrance landing priority the selective door 2 in the stop 09 |
| E197 | E197 - Landing Priority D.2 St.10 | Entrance landing priority the selective door 2 in the stop 10 |
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| E198 | E198 - Landing Priority D.2 St.11 | Entrance landing priority the selective door 2 in the stop 11 |
| E199 | E199 - Landing Priority D.2 St.12 | Entrance landing priority the selective door 2 in the stop 12 |
| E200 | E200 - Landing Priority D.2 St.13 | Entrance landing priority the selective door 2 in the stop 13 |
| E201 | E201 - Landing Priority D.2 St.14 | Entrance landing priority the selective door 2 in the stop 14 |
| E202 | E202 - Landing Priority D.2 St.15 | Entrance landing priority the selective door 2 in the stop 15 |
| E203 | E203 - Landing Priority D.2 St.16 | Entrance landing priority the selective door 2 in the stop 16 |
| E204 | E204 - Landing Call D.2 Open St.01 | Entrance car call up at the selective door 2 in the stop 01 |
| E205 | E205 - Landing Call D.2 Open St.02 | Entrance car call up at the selective door 2 in the stop 02 |
| E206 | E206 - Landing Call D.2 Open St.03 | Entrance car call up at the selective door 2 in the stop 03 |
| E207 | E207 - Landing Call D.2 Open St.04 | Entrance car call up at the selective door 2 in the stop 04 |
| E208 E209 | E208 - Landing Call D.2 Open St.05 | Entrance car call up at the selective door 2 in the stop 05 |
| E209 | E209 - Landing Call D.2 Open St.06 E210 - Landing Call D.2 Open St.07 | Entrance car call up at the selective door 2 in the stop 06 Entrance car call up at the selective door 2 in the stop 07 |
| E210 | E211 - Landing Call D.2 Open St.08 | Entrance car call up at the selective door 2 in the stop 07 |
| E212 | E212 - Landing Call D.2 Open St.09 | Entrance car call up at the selective door 2 in the stop 09 |
| E213 | E213 - Landing Call D.2 Open St.10 | Entrance car call up at the selective door 2 in the stop 10 |
| E214 | E214 - Landing Call D.2 Open St.11 | Entrance car call up at the selective door 2 in the stop 11 |
| E215 | E215 - Landing Call D.2 Open St.12 | Entrance car call up at the selective door 2 in the stop 12 |
| E216 | E216 - Landing Call D.2 Open St.13 | Entrance car call up at the selective door 2 in the stop 13 |
| E217 | E217 - Landing Call D.2 Open St.14 | Entrance car call up at the selective door 2 in the stop 14 |
| E218 | E218 - Landing Call D.2 Open St.15 | Entrance car call up at the selective door 2 in the stop 15 |
| E219 | E219 - Landing Call D.2 Open St.01 | Entrance landing call down at the selective door 2 in the stop 01 |
| E220 | E220 - Landing Call D.2 Open St.02 | Entrance landing call down at the selective door 2 in the stop 02 |
| E221 | E221 - Landing Call D.2 Open St.03 | Entrance landing call down at the selective door 2 in the stop 03 |
| E222 E223 | E222 - Landing Call D.2 Open St.04 | Entrance landing call down at the selective door 2 in the stop 04 |
| E223 E224 | E223 - Landing Call D.2 Open St.05 E224 - Landing Call D.2 Open St.06 | Entrance landing call down at the selective door 2 in the stop 05 Entrance landing call down at the selective door 2 in the stop 06 |
| E225 | E225 - Landing Call D.2 Open St.07 | Entrance landing call down at the selective door 2 in the stop 00 Entrance landing call down at the selective door 2 in the stop 07 |
| E226 | E226 - Landing Call D.2 Open St.08 | Entrance landing call down at the selective door 2 in the stop 08 |
| E227 | E227 - Landing Call D.2 Open St.09 | Entrance landing call down at the selective door 2 in the stop 09 |
| E228 | E228 - Landing Call D.2 Open St.10 | Entrance landing call down at the selective door 2 in the stop 10 |
| E229 | E229 - Landing Call D.2 Open St.11 | Entrance landing call down at the selective door 2 in the stop 11 |
| E230 | E230 - Landing Call D.2 Open St.12 | Entrance landing call down at the selective door 2 in the stop 12 |
| E231 | E231 - Landing Call D.2 Open St.13 | Entrance landing call down at the selective door 2 in the stop 13 |
| E232 | E232 - Landing Call D.2 Open St.14 | Entrance landing call down at the selective door 2 in the stop 14 |
| E233 E234 | E233 - Landing Call D.2 Open St.15 | Entrance landing call down at the selective door 2 in the stop 15 |
| E234 | E234 - Landing Call D.2 Open St.16 E235 Universal Output-1 | Entrance landing call down at the selective door 2 in the stop 16 Entrance of the universal channel 1 |
| E236 | E236 Universal Output-2 | Entrance of the universal channel 2 |
| E237 | E237 Universal Output-3 | Entrance of the universal channel 3 |
| E238 | E238 Universal Output-4 | Entrance of the universal channel 4 |
| E239 | E239 Entrance delay relay 1 | Activation entrance the time delay relay1 |
| E240 | E239 Entrance delay relay 2 | Activation entrance the time delay relay1 |
| E241 | E241-Obligation Delay V1 up | Opener contact interrupted, speed of V1 up taken away |
| E242 | E242-Obligation Delay V1 up | pener contact interrupted, speed of V2 up taken away |
| E243 | E243-Obligation Delay V1 up | Opener contact interrupted , speed of V3 up taken away |
| E244 | E244-Obligation Delay V1 down | Opener contact interrupted , speed of V4 down taken away |
| E245 | E245-Obligation Delay V1 down | Opener contact interrupted, speed of V5 down taken away |
| E246 | E246-Obligation Delay V1 down | Opener contact interrupted, speed of V6 down taken away |
| E247 E248 | E247-Selection Door E248-ER landing call up D2 | If the opener-contact is interrupted, Stopp at the next floor Input function at the remote station; Landing call Up Door 2 |
| E248 E249 | E249-ER landing call down D2 | Input function at the remote station; Landing call Op Door 2 Input function at the remote station; Landing call Down Door 2 |
| E249 E250 | E250-Priority Call D1 | Input function at the remote station, Eanding can bown boor 2 Input function at the remote station ER: Priority call at doorside 1 |
| E251 | E251- Priority Call D1 | Input function at the remote station ER: Priority call at doorside 2 |
| E252 | E252 Blockade Door side 1 | In the case of activation of the entrance-> Door side 1 not opened. (fire |
| | | drop gate) |
| E253 | E253 Blockade Door side 2 | In the case of activation of the entrance-> Door side 2 not opened. (fire |
| | | drop gate) |
| E254 | E254 Reset Safety Photo Cell | Input function for the Reset-button for CEDES LI-Safety photocell |
| E255 | E255 Monitor Safety Photo Cell | Input function for the contactor monitor for CEDES LI-Safety photocell |
| E256 | E256 HYD Top of the ramp | If there is a high level (+24V) the input channel is activated. If there is no input channel, the output geginns after 7 seconds. |
| E257 | AW emergency call function | Input function for the activation of the alarm horn |
| E258 | E258 Service Button | Output messages will be delated |
| E259 | E259 Swing apron | If the swing apron is closed, the level is "1" |
| E260 | E260 Button Remote Switcher | If "1" and appropriate inspector function actively then appropriate exit actively. |
| E261 | E261 Car Call Aera | Splitting der calls in two aeras |
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| E262 | E262 Car Call Door 1 St.01 | Input Functions Car Call Door Side 1 Stop1 |
| E263 | E263 Car Call Door 1 St.02 | Input Functions Car Call Door Side 1 Stop2 |
| E264 | E264 Car Call Door 1 St.03 | Input Functions Car Call Door Side 1 Stop3 |
| E265 | E265 Car Call Door 1 St.04 | Input Functions Car Call Door Side 1 Stop4 |
| E266 | E266 Car Call Door 1 St.05 | Input Functions Car Call Door Side 1 Stop5 |
| E267 E268 | E267 Car Call Door 1 St.06 E268 Car Call Door 1 St.07 | Input Functions Car Call Door Side 1 Stop6 |
| E269 | E269 Car Call Door 1 St.07 | Input Functions Car Call Door Side 1 Stop7 Input Functions Car Call Door Side 1 Stop8 |
| E209 | E270 Car Call Door 1 St.09 | Input Functions Car Call Door Side 1 Stop9 |
| E270 | E271 Car Call Door 1 St.10 | Input Functions Car Call Door Side 1 Stop10 |
| E272 | E272 Car Call Door 1 St.11 | Input Functions Car Call Door Side 1 Stop11 |
| E273 | E273 Car Call Door 1 St.12 | Input Functions Car Call Door Side 1 Stop12 |
| E274 | E274 Car Call Door 1 St.13 | Input Functions Car Call Door Side 1 Stop13 |
| E275 | E275 Car Call Door 1 St.14 | Input Functions Car Call Door Side 1 Stop14 |
| E276 | E276 Car Call Door 1 St.15 | Input Functions Car Call Door Side 1 Stop15 |
| E277 | E277 Car Call Door 1 St.16 | Input Functions Car Call Door Side 1 Stop16 |
| E278 | E278 Car Call Door 1 St.17 | Input Functions Car Call Door Side 1 Stop17 |
| E279 | E279 Car Call Door 1 St.18 | Input Functions Car Call Door Side 1 Stop18 |
| E280 | E280 Car Call Door 1 St.19 | Input Functions Car Call Door Side 1 Stop19 |
| E281 | E281 Car Call Door 1 St.20 | Input Functions Car Call Door Side 1 Stop20 |
| E282 | E282 Car Call Door 1 St.21 | Input Functions Car Call Door Side 1 Stop21 |
| E283 | E283 Car Call Door 1 St.22 | Input Functions Car Call Door Side 1 Stop22 |
| E284 | E284 Car Call Door 1 St.23 | Input Functions Car Call Door Side 1 Stop23 |
| E285 | E285 Car Call Door 1 St.24 | Input Functions Car Call Door Side 1 Stop24 |
| E286 | E286 Car Call Door 1 St.25 | Input Functions Car Call Door Side 1 Stop25 |
| E287 | E287 Car Call Door 1 St.26 | Input Functions Car Call Door Side 1 Stop26 |
| E288 | E288 Car Call Door 1 St.27 | Input Functions Car Call Door Side 1 Stop27 |
| E289 | E289 Car Call Door 1 St.28 | Input Functions Car Call Door Side 1 Stop28 |
| E290 E291 | E290 Car Call Door 1 St.29 E291 Car Call Door 1 St.30 | Input Functions Car Call Door Side 1 Stop29 |
| E291 E292 | E291 Car Call Door 1 St.30 | Input Functions Car Call Door Side 1 Stop30 Input Functions Car Call Door Side 1 Stop31 |
| E292 E293 | E292 Car Call Door 1 St.31 | Input Functions Car Call Door Side 1 Stop31 |
| E293 | E293 Car Call Door 1 St.32 E294 Car Call Door 2 St.01 | Input Functions Car Call Door Side 2 Stop1 |
| E295 | E295 Car Call Door 2 St.02 | Input Functions Car Call Door Side 2 Stop1 |
| E296 | E296 Car Call Door 2 St.03 | Input Functions Car Call Door Side 2 Stop3 |
| E297 | E297 Car Call Door 2 St.04 | Input Functions Car Call Door Side 2 Stop4 |
| E298 | E298 Car Call Door 2 St.05 | Input Functions Car Call Door Side 2 Stop5 |
| E299 | E299 Car Call Door 2 St.06 | Input Functions Car Call Door Side 2 Stop6 |
| E300 | E300 Car Call Door 2 St.07 | Input Functions Car Call Door Side 2 Stop7 |
| E301 | E301 Car Call Door 2 St.08 | Input Functions Car Call Door Side 2 Stop8 |
| E302 | E302 Car Call Door 2 St.09 | Input Functions Car Call Door Side 2 Stop9 |
| E303 | E303 Car Call Door 2 St.10 | Input Functions Car Call Door Side 2 Stop10 |
| E304 | E304 Car Call Door 2 St.11 | Input Functions Car Call Door Side 2 Stop11 |
| E305 | E305 Car Call Door 2 St.12 | Input Functions Car Call Door Side 2 Stop12 |
| E306 | E306 Car Call Door 2 St.13 | Input Functions Car Call Door Side 2 Stop13 |
| E307 | E307 Car Call Door 2 St.14 | Input Functions Car Call Door Side 2 Stop14 |
| E308 E309 | E308 Car Call Door 2 St.15 | Input Functions Car Call Door Side 2 Stop15 Input Functions Car Call Door Side 2 Stop16 |
| E309 E310 | E309 Car Call Door 2 St.16 E310 Car Call Door 2 St.17 | Input Functions Car Call Door Side 2 Stop 16 Input Functions Car Call Door Side 2 Stop 17 |
| E310 E311 | E310 Car Call Door 2 St. 17 E311 Car Call Door 2 St. 18 | Input Functions Car Call Door Side 2 Stop 17 |
| E311 E312 | E312 Car Call Door 2 St. 18 | Input Functions Car Call Door Side 2 Stop19 |
| E312 | E313 Car Call Door 2 St.19 | Input Functions Car Call Door Side 2 Stop19 |
| E314 | E314 Car Call Door 2 St.20 | Input Functions Car Call Door Side 2 Stop20 |
| E315 | E315 Car Call Door 2 St.22 | Input Functions Car Call Door Side 2 Stop21 |
| E316 | E316 Car Call Door 2 St.23 | Input Functions Car Call Door Side 2 Stop23 |
| E317 | E317 Car Call Door 2 St.24 | Input Functions Car Call Door Side 2 Stop24 |
| E318 | E318 Car Call Door 2 St.25 | Input Functions Car Call Door Side 2 Stop25 |
| E319 | E319 Car Call Door 2 St.26 | Input Functions Car Call Door Side 2 Stop26 |
| E320 | E320 Car Call Door 2 St.27 | Input Functions Car Call Door Side 2 Stop27 |
| E321 | E321 Car Call Door 2 St.28 | Input Functions Car Call Door Side 2 Stop28 |
| E322 | E322 Car Call Door 2 St.29 | Input Functions Car Call Door Side 2 Stop29 |
| E323 | E323 Car Call Door 2 St.30 | Input Functions Car Call Door Side 2 Stop30 |
| E324 | E324 Car Call Door 2 St.31 | Input Functions Car Call Door Side 2 Stop31 |
| E325 | E325 Car Call Door 2 St.32 | Input Functions Car Call Door Side 2 Stop32 |
| E326 | E326 Floor blockage waive | Input function for the abolition of the floor blockage |
| E327 | E327 Totman Car call ON | Input function for activation the car calls of a Totman controlling |
| E328 E329 | E328 bolt device activate E329 Bolt driven out | Entrance for pin bolting device Feedback that tha bolts drove out |
| | | |



KW Aufzugstechnik GmbH OPERATING MANUAL DAVID-2005

| E330 | fzugstechnik GmbH KW Aufzugstechnik GmbH | OPERATING MANUAL DAVID-2005 |
|--|--|---|
| | E330 Bolt drive in | Feedback that the bolt drove in |
| E331 | E331 Resend control E/A | If " 0 " then resend operation |
| E332 | E332 Resend control UP | If " 1" then UP |
| | | |
| E333 | E333 Resend control Down | If "1" than DOWN |
| E334 | Code key of car call 1 | Code- button-1 |
| E335 | Code key of car call 2 | Code- button-2 |
| E336 | Code key of car call 3 | Code- button-3 |
| E337 | Code key of car call 4 | Code- button-4 |
| | | |
| E338 | Code key of car call 5 | Code- button-5 |
| E339 | Code key of car call 6 | Code- button-6 |
| E340 | Code key of car call 7 | Code- button-7 |
| E341 | Code key of car call 8 | Code- button-8 |
| | | |
| E342 | Code key of car call 9 | Code- button-9 |
| E343 | Code key of car call 0 | Code- button-0 |
| E344 | E344 Code lock of car calls # | Input confirming |
| E345 | E345 Light barrier Door 1 | Entrance function light barrier Door 1 |
| | | |
| E346 | E346 Reversing contact Door 1 | Entrance function reversing Door 1 |
| E347 | E347 Limit switch open Door 1 | Entrance function limit switch open Door 1 |
| E348 | E348 Limit switch close Door 1 | Entrance function limit switch close Door 1 |
| E349 | E349 Light barrier Door 2 | Entrance function limit barrier Door 2 |
| | | |
| E350 | E350 Reversing contact Door 2 | Entrance function reversing contact Door 2 |
| E351 | E351 Limit switch open Door 2 | Entrance function limit switch open Door 2 |
| E352 | E352 Limit switch close Door 2 | Entrance function limit switch close Door 2 |
| E353 | E353 Case of fire reset | Function of the Swiss fire drop evacuation, BF-> normal operation |
| | | |
| E354 | E354 floor gong off | Function for external switching of the floor gong, high gong off |
| E355 | E355 position motor off (Hydr OTIS) | Switch off for position motors of OTIS hydraulic |
| E356 | E356-Contactor Monitor No.2 | Is a AND contection with Input E13 |
| E357 | E357 Group off | |
| E358 | E358 Emgine temperature rise | If "1" than OK |
| | | |
| E359 | E359 Door 1 open | If "1" then the door opens (Auxiliary entrance for traffic light circuit) |
| E360 | E360 Door 2 open | If "1" then the door opens (Auxiliary entrance for traffic light circuit) |
| E361 | E361 slowly drive V1 | If "1" then drives elevator only with V1 |
| E362 | E362-Control & Light off #2 | Rest-Driven, like E16 |
| | | |
| E363 | E363 Gas trip | If , but wait 1 , then gas trip, like interior preference/ advantage to light |
| | | barrier |
| E364 | E364 Bolt manually drive in | Only with Insp/ releveling+ mobile bolting device |
| E365 | E365 Bolt manually drive out | Only with Insp/ releveling+ mobile bolting device |
| | | |
| | E266 Dolt Linder pressure | If 0 then negative pressure |
| E366 | E366 Bolt Under pressure | If " 0 " then negative pressure |
| E367 | E367 Bolt pressure swich off | If "0 " then negative pressure If "0 " then negative pressure |
| | | |
| E367 E368 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 | |
| E367 E368 E369 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 E369 Call Blockade Inside D1 St.01 | |
| E367 E368 E369 E370 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 E369 Call Blockade Inside D1 St.01 E370 Call Blockade Inside D1 St.01 | |
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| E367 E368 E369 E370 E371 E372 E373 E374 E375 E376 E377 E378 E377 E378 E379 E380 E381 E382 E383 E384 E385 E386 E387 E388 E388 E389 E390 E391 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 E369 Call Blockade Inside D1 St.01 E370 Call Blockade Inside D1 St.01 E371Call Blockade Inside D1 St.01 E372Call Blockade Inside D1 St.01 E373Call Blockade Inside D1 St.01 E374Call Blockade Inside D1 St.01 E375Call Blockade Inside D1 St.01 E376Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E382Call Blockade Inside D1 St.01 E383Call Blockade Inside D1 St.01 E384Call Blockade Inside D2 St.01 E385Call Blockade Inside D2 St.02 E386Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.04 E388Call Blockade Inside D2 St.05 E389Call Blockade Inside D2 St.07 E391Call Blockade Inside D2 St.08 | |
| E367 E368 E369 E370 E371 E372 E373 E374 E375 E376 E377 E378 E377 E378 E379 E380 E381 E382 E383 E384 E385 E386 E387 E388 E388 E388 E389 E390 E391 E392 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 E369 Call Blockade Inside D1 St.01 E370 Call Blockade Inside D1 St.01 E371Call Blockade Inside D1 St.01 E372Call Blockade Inside D1 St.01 E373Call Blockade Inside D1 St.01 E374Call Blockade Inside D1 St.01 E375Call Blockade Inside D1 St.01 E376Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E382Call Blockade Inside D1 St.01 E384Call Blockade Inside D1 St.01 E384Call Blockade Inside D2 St.01 E385Call Blockade Inside D2 St.02 E386Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.03 E389Call Blockade Inside D2 St.03 E389Call Blockade Inside D2 St.05 E389Call Blockade Inside D2 St.07 E391Call Blockade Inside D2 St.08 E392Call Blockade Inside D2 St.09 | |
| E367 E368 E369 E370 E371 E372 E373 E374 E375 E376 E376 E377 E378 E377 E378 E379 E380 E381 E382 E383 E384 E385 E384 E385 E386 E387 E388 E389 E390 E391 E392 E393 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 E369 Call Blockade Inside D1 St.01 E370 Call Blockade Inside D1 St.01 E371Call Blockade Inside D1 St.01 E372Call Blockade Inside D1 St.01 E373Call Blockade Inside D1 St.01 E374Call Blockade Inside D1 St.01 E375Call Blockade Inside D1 St.01 E376Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E382Call Blockade Inside D1 St.01 E383Call Blockade Inside D1 St.01 E384Call Blockade Inside D2 St.01 E385Call Blockade Inside D2 St.02 E386Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.04 E388Call Blockade Inside D2 St.05 E389Call Blockade Inside D2 St.07 E391Call Blockade Inside D2 St.08 | |
| E367 E368 E369 E370 E371 E372 E373 E374 E375 E376 E377 E378 E377 E378 E379 E380 E381 E382 E383 E384 E385 E386 E387 E388 E388 E388 E389 E390 E391 E392 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 E369 Call Blockade Inside D1 St.01 E370 Call Blockade Inside D1 St.01 E371Call Blockade Inside D1 St.01 E372Call Blockade Inside D1 St.01 E373Call Blockade Inside D1 St.01 E374Call Blockade Inside D1 St.01 E375Call Blockade Inside D1 St.01 E376Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E382Call Blockade Inside D1 St.01 E384Call Blockade Inside D1 St.01 E384Call Blockade Inside D2 St.01 E385Call Blockade Inside D2 St.02 E386Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.04 E388Call Blockade Inside D2 St.05 E389Call Blockade Inside D2 St.07 E391Call Blockade Inside D2 St.08 E392Call Blockade Inside D2 St.09 | |
| E367 E368 E369 E370 E371 E372 E373 E374 E375 E376 E376 E377 E378 E377 E378 E379 E380 E381 E382 E383 E384 E385 E384 E385 E386 E387 E388 E389 E390 E391 E392 E393 E394 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 E369 Call Blockade Inside D1 St.01 E370 Call Blockade Inside D1 St.01 E371Call Blockade Inside D1 St.01 E372Call Blockade Inside D1 St.01 E373Call Blockade Inside D1 St.01 E374Call Blockade Inside D1 St.01 E375Call Blockade Inside D1 St.01 E376Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E379Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E381Call Blockade Inside D1 St.01 E382Call Blockade Inside D1 St.01 E384Call Blockade Inside D2 St.01 E385Call Blockade Inside D2 St.02 E386Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.03 E389Call Blockade Inside D2 St.03 E399Call Blockade Inside D2 St.03 | |
| E367 E368 E369 E370 E371 E372 E373 E374 E375 E376 E376 E377 E378 E377 E378 E379 E380 E381 E382 E383 E384 E385 E384 E385 E386 E387 E388 E389 E390 E391 E392 E393 | E367 Bolt pressure swich off E368 Call Blockade Inside D1 St.01 E369 Call Blockade Inside D1 St.01 E370 Call Blockade Inside D1 St.01 E371Call Blockade Inside D1 St.01 E372Call Blockade Inside D1 St.01 E373Call Blockade Inside D1 St.01 E374Call Blockade Inside D1 St.01 E375Call Blockade Inside D1 St.01 E376Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E377Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E378Call Blockade Inside D1 St.01 E379Call Blockade Inside D1 St.01 E379Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E380Call Blockade Inside D1 St.01 E382Call Blockade Inside D1 St.01 E383Call Blockade Inside D1 St.01 E384Call Blockade Inside D2 St.01 E385Call Blockade Inside D2 St.02 E386Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.03 E387Call Blockade Inside D2 St.03 E389Call Blockade Inside D2 St.05 E389Call Blockade Inside D2 St.07 E391Call Blockade Inside D2 St.08 E392Call Blockade Inside D2 St.09 E393Call Blockade Inside D2 St.09 E393Call Blockade Inside D2 St.00 | |



| Au | hzugstechnik GmbH KW Aufzugstechnik GmbH | OPERATING MANUAL DAVID-2005 |
|------|--|---|
| E397 | E397Call Blockade Inside D2 St.14 | |
| E398 | E398Call Blockade Inside D2 St.15 | |
| E399 | E399Call Blockade Inside D2 St.16 | |
| E400 | E400Call Blockade Outside D1St.01 | |
| E401 | E401Call Blockade Outside D1 St.02 | |
| E402 | E400Call Blockade Outside D1 St.03 | |
| E403 | E403Call Blockade Outside D1 St.04 | |
| E404 | E404Call Blockade Outside D1 St.05 | |
| E405 | E405Call Blockade Outside D1 St.06 | |
| E406 | E406Call Blockade Outside D1 St.07 | |
| E407 | E407Call Blockade Outside D1 St.08 | |
| E408 | E408Call Blockade Outside D1 St.09 | |
| E409 | E409Call Blockade Outside D1 St.10 | |
| E410 | E410Call Blockade Outside D1 St.11 | |
| E411 | E411Call Blockade Outside D1 St.12 | |
| E412 | E412Call Blockade Outside D1 St.13 | |
| E413 | E413Call Blockade Outside D1 St.14 | |
| E414 | E414Call Blockade Outside D1 St.15 | |
| E415 | E415Call Blockade Outside D1 St.16 | |
| E416 | E416Call Blockade Outside D2 St.01 | |
| E417 | E417Call Blockade Outside D2 St.02 | |
| E418 | E418Call Blockade Outside D2 St.03 | |
| E419 | E419Call Blockade Outside D2 St.04 | |
| E420 | E420Call Blockade Outside D2 St.05 | |
| E421 | E421Call Blockade Outside D2 St.06 | |
| E422 | E422Call Blockade Outside D2 St.07 | |
| E423 | E423Call Blockade Outside D2 St.08 | |
| E424 | E424Call Blockade Outside D2 St.09 | |
| E425 | E425Call Blockade Outside D2 St.10 | |
| E426 | E426Call Blockade Outside D2 St.11 | |
| E427 | E427Call Blockade Outside D2 St.12 | |
| E428 | E428Call Blockade Outside D2 St.13 | |
| E429 | E429Call Blockade Outside D2 St.14 | |
| E430 | E430Call Blockade Outside D2 St.15 | |
| E431 | E431Call Blockade Outside D2 St.16 | |
| E432 | E432 Pahse reversal monitoring | If "1" ok, if "0" then errors |
| E433 | E433 Brake- & Blockvoltage | If "1" ok, if "0" then errors |
| E434 | E433 Less pressure | If "1" ok, if "0" then errors |
| E435 | E435 Landing call off | During active entrance to ER is switched off external control |
| E436 | E436 LED matrix out of operation | During active entrance LED matrix becomes to ER powr down |
| E437 | E437 Car Person Senor | |
| E438 | E438 Brake open monitor 2. coil | |
| E439 | E439 Brake open monitor 3. coil | |

Description of functions and expirations

FUNKTION E361 Slow speed V1

If "1" is then implemented the trip only with V1. ("Glass bone" trip)

FUNKTION E362 QUIESCENT SPEED-2

Resembles function as E16 quiescent trip only another quiescent level can be stopped here. If E16 has actively, then E16 priority. At the group at the floor computer only E16 is evaluated.

FUNKTION E363 GAS TRIP

The gas trip has the same function as the interior preference/ advantage E189. Around the gas trip to active +24V must be set on the entrance E363. All car calls and landing calls are deleted the cab door open and/ or remain open. Now an car call can be entered, the car call however is only the processed, after the light barrier was interrupted. Also the door remains so long opened. Thus is to be guaranteed that the user after input of the car call the cab left.



| | | Frame-10 | Frame -11 | Frame -12 | Frame -13 | Frame -14 |
|--------------------------------------|----------------|--|---|--|--|-----------|
| | | 1KS-12HS Rope | 2KS-10HS Rope | 1KS-10HS Hydraulic | 2KS-08HS Hydraulic | |
| < 301 | Relay | O-/Collecting Fault/ | O-/Collecting Fault/ | O-/Collecting Fault/ | O-/Collecting Fault/ | |
| K302 | Relay | O-Door-controlling D1 open | O-Door-controlling D1 open | O-Door-controlling D1 open | O-Door-controlling D1 open | |
| K303 | Relay | O-Door-controlling D1 close | O-Door-controlling D1 close | O-Door-controlling D1 close | O-Door-controlling D1 close | |
| K304 | Relay | O-Door-controlling D2 open | O-Door-controlling D2 open | O-Door-controlling D2 open | O-Door-controlling D2 open | |
| K305 | Relay | O-Door-controlling D2 close | O-Door-controlling D2 close | O-Door-controlling D2 close | O-Door-controlling D2 close | |
| K306 | Relay | O-Locked Magnet | O-Locked Magnet | O-Locked Magnet | O-Locked Magnet | |
| K307 | Relay | O- Car Pos. Indic1 | O- Car Pos. Indic1 | O-Emergency power Level reached | O-Emergency power Level reached | |
| K308 | Relay | O- Car Pos. Indic2 | O- Car Pos. Indic2 | O-No Function | O-No Function | |
| K309 | Relay | O- Car Pos. Indic3 | O- Car Pos. Indic3 | O-No Function | O-No Function | |
| K310 | Relay | O- Car Pos. Indic4 | O- Car Pos. Indic4 | O-Arrow up | O-Arrow up | |
| K311 | Relay | O- Car Pos. Indic5 | O- Car Pos. Indic5 | O-Arrow down | O-Arrow down | |
| K312 | Relay | O-Remote Release | O-Remote Release | O-Remote Release | O-Remote Release | |
| K401 | Relay | Controlling D1 Open | Controlling D1 Open | Controlling D1 Open | Controlling D1 Open | |
| K402 K403 | Relay Relay | Controlling D1 Close Controlling D2 Open | Controlling D1 Close Controlling D2 Open | Controlling D1 Close Controlling D2 Open | Controlling D1 Close Controlling D2 Open | |
| K403 K404 | Relay | Controlling D2 Open | Controlling D2 Open | Controlling D2 Open | Controlling D2 Open | |
| K404 | Relay | O-Car Fan | O-Car Fan | O-Car Fan | O-Car Fan | |
| ZA-0 | I/O | I-Safery Circuit | I-Safery Circuit | I-Safery Circuit | I-Safery Circuit | |
| ZA-1 | 1/0 | I-Si-Zone | I-Si-Zone | I-Si-Zone | I-Si-Zone | |
| ZA-2 | 1/0 | O-Releveling | O-Releveling | O-Releveling | O-Releveling | |
| ZA-3 | I/O | I-Brake open monitor | I-Brake open monitor | E-Hydr.Hochlauf | E-Hydr.Hochlauf | |
| ZA-4 | I/O | I-Overload | I-Overload | I-Overload | I-Overload | |
| ZA-5 | I/O | I-Releveling I/O | I-Releveling I/O | I-Releveling I/O | I-Releveling I/O | |
| ZA-6 | I/O | I-Releveling Up | I-Releveling Up | I-Releveling Up | I-Releveling Up | |
| ZA-7 | I/O | I-Releveling Down | I-Releveling Down | I-Releveling Down | I-Releveling Down | |
| ZB-0 | I/O | I-ContactorMonitoring | I-ContactorMonitoring | I-ContactorMonitoring | I-ContactorMonitoring | |
| ZB-1 | I/O | I-Landing Control Off | I-Landing Control Off | I-Landing Control Off | I-Landing Control Off | |
| ZB-2 | I/O | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | |
| ZB-3 ZB-4 | 1/0 1/0 | I-Fire evac. F. prior.1 I-Fire evac. F. prior.2 | I-Fire evac. F. prior.1 O-Continued Travel | I-Fire evac. F. prior.1 I-Fire evac. F. prior.2 | I-Fire evac. F. prior.1 I-Fire evac. F. prior.2 | |
| ZB-5 | I/O | I-Remote Release | Down F02 O-Continued Travel Down F03 | I-Remote Release | I-Remote Release | |
| ZB-6 | I/O | O-Continued Travel Down F02 | O-Continued Travel Down F04 | O-Continued Travel Down F02 | O-Continued Travel Down F02 | |
| ZB-7 | I/O | O-Continued Travel Down F03 | O-Continued Travel Down F05 | O-Continued Travel Down F03 | O-Continued Travel Down F03 | |
| ZC-0 | I/O | O-Continued Travel Down F04 | O-Continued Travel Down F06 | O-Continued Travel Down F04 | O-Continued Travel Down F04 | |
| ZC-1 | I/O | O-Continued Travel Down F05 | O-Continued Travel Down F07 | O-Continued Travel Down F05 | O-Continued Travel Down F05 | |
| ZC-2 | I/O | O-Continued Travel Down F06 | O-Continued Travel Down F08 | O-Continued Travel Down F06 | O-Continued Travel Down F06 | |
| ZC-3 | I/O | O-Continued Travel Down F07 | O-Continued Travel Down F09 | O-Continued Travel Down F07 | O-Continued Travel Down F07 | |
| ZC-4 | I/O | O-Continued Travel Down F08 | O-Continued Travel Down F10 | O-Continued Travel Down F08 | O-Continued Travel Down F08 | |
| ZC-5 | I/O | O-Continued Travel Down F09 | Lan. Call Down F02 | O-Continued Travel Down F09 | Lan. Call Down F02 | |
| ZC-6 | I/O | O-Continued Travel Down F10 | Lan. Call Down F03 | O-Continued Travel Down F10 | Lan. Call Down F03 | |
| ZC-7 | I/O | O-Continued Travel Down F11 | Lan. Call Down F04 | Lan. Call Down F01 | Lan. Call Down F04 | |
| ZD-0 | I/O | O-Continued Travel Down F12 | Lan. Call Down F05 | Lan. Call Down F02 | Lan. Call Down F05 | |
| ZD-1 | I/O | Lan. Call Down F01 | Lan. Call Down F06 | Lan. Call Down F03 | Lan. Call Down F06 | |
| ZD-2 | I/O | Lan. Call Down F02 | Lan. Call Down F07 | Lan. Call Down F04 | Lan. Call Down F07 | |
| ZD-3 | I/O | Lan. Call Down F03 | Lan. Call Down F08 | Lan. Call Down F05 | Lan. Call Down F08 | |
| ZD-4 | I/O | Lan. Call Down F04 | Lan. Call Down F09 | Lan. Call Down F06 | Lan. Call Up F01 | |
| | I/O | Lan. Call Down F05 | Lan. Call Down F10 | Lan. Call Down F07 | Lan. Call Up F02 | |
| | | Lan. Call Down F06 | Lan. Call Up F01 | Lan. Call Down F08 | Lan. Call Up F03 | |
| ZD-6 | I/O | | | | | |
| ZD-6 ZD-7 | I/O | Lan. Call Down F07 | Lan. Call Up F02 | Lan. Call Down F09 | Lan. Call Up F04 | |
| ZD-5 ZD-6 ZD-7 ZE-0 ZE-1 | | | | Lan. Call Down F09 Lan. Call Down F10 O-Continued Travel | Lan. Call Up F04 Lan. Call Up F05 Lan. Call Up F06 | |

| | cw | t | | | | |
|------|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------|
| Aufz | ugstechnik GmbH | KW Aufzugste | echnik GmbH | OPEF | RATING MANUAL E | DAVID-2005 |
| ZE-2 | I/O | Lan. Call Down F10 | Lan. Call Up F05 | O-Continued Travel Up F02 | Lan. Call Up F07 | |
| ZE-3 | I/O | Lan. Call Down F11 | Lan. Call Up F06 | O-Continued Travel Up F03 | O-Continued Travel Up F01 | |
| ZE-4 | I/O | Lan. Call Down F12 | Lan. Call Up F07 | O-Continued Travel Up F04 | O-Continued Travel Up F02 | |
| ZE-5 | I/O | O-Continued Travel Up F01 | Lan. Call Up F08 | O-Continued Travel Up F05 | O-Continued Travel Up F03 | |
| ZE-6 | I/O | O-Continued Travel Up F02 | Lan. Call Up F09 | O-Continued Travel Up F06 | O-Continued Travel Up F04 | |
| ZE-7 | I/O | O-Continued Travel Up F03 | O-Continued Travel Up F01 | O-Continued Travel Up F07 | O-Continued Travel Up F05 | |
| ZF-0 | I/O | O-Continued Travel Up F04 | O-Continued Travel Up F02 | O-Continued Travel Up F08 | O-Continued Travel Up F06 | |
| ZF-1 | I/O | O-Continued Travel Up F05 | O-Continued Travel Up F03 | O-Continued Travel Up F09 | O-Continued Travel Up F07 | |
| ZF-2 | I/O | O-Continued Travel Up F06 | O-Continued Travel Up F04 | O- Car Pos. Indic.21h | O- Car Pos. Indic.21h | |
| ZF-3 | I/O | O-Continued Travel Up F07 | O-Continued Travel Up F05 | O- Car Pos. Indic.22h | O- Car Pos. Indic.22h | |
| ZF-4 | I/O | O-Continued Travel Up F08 | O-Continued Travel Up F06 | O- Car Pos. Indic.23h | O- Car Pos. Indic.23h | |
| ZF-5 | I/O | O-Continued Travel Up F09 | O-Continued Travel Up F07 | O- Car Pos. Indic.24h | O- Car Pos. Indic.24h | |
| ZF-6 | I/O | O-Continued Travel Up F10 | O-Continued Travel Up F08 | O- Car Pos. Indic.25h | O- Car Pos. Indic.25h | |
| ZF-7 | I/O | O-Continued Travel Up F11 | O-Continued Travel Up F09 | O- Car Pos. Indic.26h | O- Car Pos. Indic.26h | |



OPERATING MANUAL DAVID-2005

| Frame-10 | Frame-11 | Frame-12 | Frame-13 | Frame-14 |
|-------------------------------------|------------------------------------|--|---|---|
| 1KS-12HS Rope | 2KS-10HS Rope | 1KS-10HS Hydraulic | 2KS-08HS Hydraulic | |
| I- Emer. Power oper. | I- Emer. Power oper. | I- Emer. Power oper. | I- Emer. Power oper. | |
| I- Emer. Power drive | I- Emer. Power drive | I- Emer. Power drive | I- Emer. Power drive | |
| I-Restarting | I-Restarting | I-Restarting | I-Restarting | |
| Cab Light Off | Cab Light Off | Cab Light Off | Cab Light Off | |
| KR | | | | |
| I-Overload | I-Overload | I-Overload | I-Overload | |
| I- Safety Photocell | I- Safety Photocell | I- Safety Photocell | I- Safety Photocell | |
| I- Full Load I- No Function | I- Full Load I- No Function | I- Full Load I- No Function | I- Full Load I- No Function | |
| I- No Function | I- No Function | I- No Function | I- No Function | |
| I- No Function | I- No Function | I- No Function | I- No Function | |
| I- No Function | I- No Function | I- No Function | I- No Function | |
| I- No Function | I- No Function | I- No Function | I- No Function | |
| I-Photocell D1 | I-Photocell D1 | I-Photocell D1 | I-Photocell D1 | |
| I-Reverse Contakt D1 | I-Reverse Contakt D1 | I-Reverse Contakt D1 | I-Reverse Contakt D1 | |
| I-Door end switcher | I-Door end switcher | I-Door end switcher | I-Door end switcher | |
| Open D1 I-Door end switcher | Open D1 | Open D1 | Open D1 | |
| Close D1 | I-Door end switcher | I-Door end switcher Close D1 | I-Door end switcher Close D1 | |
| I-Photocell D2 | Close D1 I-Photocell D2 | I-Photocell D2 | I-Photocell D2 | |
| I-Reverse Contakt D2 | I-Reverse Contakt D2 | I-Reverse Contakt D2 | I-Reverse Contakt D2 | |
| I-Door end switcher | I-Door end switcher | I-Door end switcher | I-Door end switcher | |
| Open D2 | Open D2 | Open D2 | Open D2 | |
| I-Door end switcher | I-Door end switcher | I-Door end switcher | I-Door end switcher | |
| Close D2 | Close D2 | Close D2 | Close D2 | |
| ard EIT Car Call Down F09 | Car Call Down F09 | O- Car Pos. Indic1 | O- Car Pos. Indic1 | |
| Car Call Down F10 | Car Call Down F10 | O- Car Pos. Indic1 O- Car Pos. Indic2 | O- Car Pos. Indic1 O- Car Pos. Indic2 | |
| Car Call Down F11 | Car Call Down F11 | O- Car Pos. Indic2 O- Car Pos. Indic3 | O- Car Pos. Indic2 O- Car Pos. Indic3 | |
| Car Call Down F12 | Car Call Down F12 | O- Car Pos. Indic3 | O- Car Pos. Indic3 | |
| O- Car Pos. Indic1 | O- Car Pos. Indic1 | O- Car Pos. Indic4 | O- Car Pos. Indic4 | |
| O- Car Pos. Indic2 | O- Car Pos. Indic2 | O- Car Pos. Indic6 | O- Car Pos. Indic6 | |
| O- Car Pos. Indic3 | O- Car Pos. Indic3 | O- Car Pos. Indic7 | O- Car Pos. Indic7 | |
| O- Car Pos. Indic4 | O- Car Pos. Indic4 | O- Car Pos. Indic8 | O- Car Pos. Indic8 | |
| Car Call Down F01 | Car Call Down F01 | Car Call Down F01 | Car Call Down F09 | |
| Car Call Down F02 | Car Call Down F02 | Car Call Down F02 | Car Call Down F09 | |
| Car Call Down F03 | Car Call Down F03 | Car Call Down F03 | Car Call Down F09 | |
| Car Call Down F04 | Car Call Down F04 | Car Call Down F04 | Car Call Down F09 | |
| Car Call Down F05 | Car Call Down F05 | Car Call Down F05 | Car Call Down F09 | |
| Car Call Down F06 | Car Call Down F06 | Car Call Down F06 | Car Call Down F09 | |
| Car Call Down F07 | Car Call Down F07 | Car Call Down F07 | Car Call Down F09 | |
| Car Call Down F08 | Car Call Down F08 | Car Call Down F08 | Car Call Down F09 | |
| I-Door 1 Open | I-Door 1 Open | I-Door 1 Open | I-Door 1 Open | |
| I-Door 1 Close | I-Door 1 Close I-Door 2 Open | I-Door 1 Close | I-Door 1 Close | |
| I-Door 2 Open O-Overlaod | O-Overlaod | I-Door 2 Open O-Overlaod | I-Door 2 Open O-Overlaod | |
| I-Button Fan | I-Button Fan | I-Button Fan | I-Button Fan | |
| I-Car Priority | I-Car Priority | I-Car Priority | I-Car Priority | |
| O-Cab Arrow Up | O-Cab Arrow Up | O-Cab Arrow Up | O-Cab Arrow Up | |
| O-Cab Arrow Down | O-Cab Arrow Down | O-Cab Arrow Down | O-Cab Arrow Down | |
| roller ITR-1 and ITR-2 | | | | |
| O- Car Pos. Indic1 | O- Car Pos. Indic1 | O- Car Pos. Indic1 | O- Car Pos. Indic1 | |
| O- Car Pos. Indic2 | O- Car Pos. Indic2 | O- Car Pos. Indic2 | O- Car Pos. Indic2 | |
| O- Car Pos. Indic3 | O- Car Pos. Indic3 | O- Car Pos. Indic3 | O- Car Pos. Indic3 | |
| O- Car Pos. Indic4 | O- Car Pos. Indic4 | O- Car Pos. Indic4 | O- Car Pos. Indic4 | |
| O- Car Pos. Indic5 | O- Car Pos. Indic5 | O- Car Pos. Indic5 | O- Car Pos. Indic5 | |
| O- Car Pos. Indic6 | O- Car Pos. Indic6 | O- Car Pos. Indic6 | O- Car Pos. Indic6 | |
| O- Car Pos. Indic7 | O- Car Pos. Indic7 | O- Car Pos. Indic7 | O- Car Pos. Indic7 | |
| O- Car Pos. Indic8 | O- Car Pos. Indic8 | O- Car Pos. Indic8 | O- Car Pos. Indic8 | |
| O-Cab Arrow Up O-Cab Arrow Down | O-Cab Arrow Up O-Cab Arrow Down | O-Cab Arrow Up O-Cab Arrow Down | O-Cab Arrow Up O-Cab Arrow Down | |
| O-Cab Arrow Down O-Overlaod | O-Cab Arrow Down O-Overlaod | O-Cab Arrow Down O-Overlaod | O-Cab Arrow Down O-Overlaod | |
| O-Messaging Fan | O-Messaging Fan | O-Messaging Fan | O-Messaging Fan | |
| O-Evacuation | O-Evacuation | O-Evacuation | O-Evacuation | |
| O-Evacuation O- Emer.Power oper. | O-Emer.Power oper. | O-Emer.Power oper. | O-Emer.Power oper. | |
| O-Out Of Operation | O-Out Of Operation | O-Out Of Operation | O-Out Of Operation | |
| O-Special Drive | O-Special Drive | O-Special Drive | O-Special Drive | |
| I/O Car Call - F1 | I/O Car Call - F1 | I/O Car Call - F1 | I/O Car Call - F1 | |
| I/O Car Call – F2 | I/O Car Call – F2 | I/O Car Call – F2 | I/O Car Call – F2 | |
| I/O Car Call – F3 | I/O Car Call – F3 | I/O Car Call – F3 | I/O Car Call – F3 | |
| I/O (| | Car Call – F3 I/O Car Call – F3 | Car Call – F3 I/O Car Call – F3 I/O Car Call – F3 | Car Call – F3 I/O Car Call – F3 I/O Car Call – F3 I/O Car Call – F3 |



| | | t | | | | |
|-------|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|
| Aufz | ugstechnik GmbH | KW Aufzugste | echnik GmbH | OPE | RATING MANUAL D | AVID-2005 |
| IC-4 | I/O | I/O Car Call – F5 | I/O Car Call – F5 | I/O Car Call – F5 | I/O Car Call –F5 | |
| IC-5 | I/O | I/O Car Call – F6 | I/O Car Call – F6 | I/O Car Call – F6 | I/O Car Call –F6 | |
| IC-6 | I/O | I/O Car Call – F7 | I/O Car Call – F7 | I/O Car Call –F7 | I/O Car Call –F7 | |
| IC-7 | I/O | I/O Car Call – F8 | I/O Car Call – F8 | I/O Car Call –F8 | I/O Car Call –F8 | |
| ID-0 | I/O | I/O Car Call – F9 | I/O Car Call – F9 | I/O Car Call –F9 | I/O Car Call –F9 | |
| ID-1 | I/O | I/O Car Call - F10 | I/O Car Call - F10 | I/O Car Call –F10 | I/O Car Call –F10 | |
| ID-2 | I/O | I/O Car Call - F11 | I/O Car Call - F11 | I/O Car Call –F11 | I/O Car Call –F11 | |
| ID-3 | I/O | I/O Car Call - F12 | I/O Car Call - F12 | I/O Car Call –F12 | I/O Car Call –F12 | |
| ID-4 | I/O | I/O Car Call - F13 | I/O Car Call - F13 | I/O Car Call –F13 | I/O Car Call –F13 | |
| ID-5 | I/O | I/O Car Call - F14 | I/O Car Call - F14 | I/O Car Call –F14 | I/O Car Call –F14 | |
| ID-6 | I/O | I/O Car Call - F15 | I/O Car Call - F15 | I/O Car Call –F15 | I/O Car Call –F15 | |
| ID-7 | I/O | I/O Car Call - F16 | I/O Car Call - F16 | I/O Car Call –F16 | I/O Car Call –F16 | |
| IE-0 | Input | I-Door-1 Open | I-Door-1 Open | I-Door-1 Open | I-Door-1 Open | |
| IE-1 | Input | I-Door-1 Close | I-Door-1 Close | I-Door-1 Close | I-Door-1 Close | |
| IE-2 | Input | I-Door-2 Open | I-Door-2 Open | I-Door-2 Open | I-Door-2 Open | |
| IE-3 | Input | I-Door-2 Close | I-Door-2 Close | I-Door-2 Close | I-Door-2 Close | |
| IE-4 | Input | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | |
| IE-5 | Input | I-Car Priority | I-Car Priority | I-Car Priority | I-Car Priority | |
| IE-6 | Input | I-Button Fan | I-Button Fan | I-Button Fan | I-Button Fan | |
| IE-7 | Input | I-Ramp Travel | I-Ramp Travel | I-Ramp Travel | I-Ramp Travel | |
| Expan | sion Unit | ZG-1 OTIS-REM 5.0 | | | | |
| 21g | 1/0 | O-Car in drive | O-Car in drive | O-Car in drive | O-Car in drive | |
| 22q | I/O | O-D.&Block contact | O-D.&Block contact | O-D.&Block contact | O-D.&Block contact | |
| 23q | I/O | O-S. circuit switcher | O-S. circuit switcher | O-S. circuit switcher | O-S. circuit switcher | |
| 24g | 1/0 | A-Ready for Use | A-Ready for Use | A-Ready for Use | A-Ready for Use | |
| 25g | 1/0 | O-Calls are present | O-Calls are present | O-Calls are present | O-Calls are present | |
| 26g | I/O | Com. Door1 open | Com. Door1 open | Com. Door1 open | Com. Door1 open | |
| 27g | 1/0 | Com. Door1 close | Com. Door1 close | Com. Door1 close | Com. Door1 close | |
| 28g | 1/0 | Drive without door | Drive without door | Drive without door | Drive without door | |
| 3 | - | opening | opening | opening | opening | |
| 29g | I/O | /normal operation/ | /normal operation/ | /normal operation/ | /normal operation/ | |
| 30g | I/O | Com. Door2 open | Com. Door2 open | Com. Door2 open | Com. Door2 open | |
| 31g | I/O | Com. Door2 close | Com. Door2 close | Com. Door2 close | Com. Door2 close | |
| 32g | I/O | free | free | free | free | |
| 33g | I/O | free | free | free | free | |
| 34g | I/O | free | free | free | free | |
| 35g | I/O | free | free | free | free | |
| 36g | I/O | free | free | free | free | |
| 37g | I/O | free | free | free | free | |
| 38g | I/O | free | free | free | free | |
| 39g | I/O | free | free | free | free | |
| 40g | I/O | free | free | free | free | |
| 41g | I/O | free | free | free | free | |
| 42g | I/O | free | free | free | free | |
| 43g | I/O | free | free | free | free | |
| 44g | I/O | free | free | free | free | |
| 9 | | | | | | |



OPERATING MANUAL DAVID-2005

| | | Frame-15 | Frame-16 | Frame-17 | Frame-18 | Frame-19 |
|--|--------------------------|---|---|---|---|----------|
| | | ER-EF-Rope | ER-2nd-GR-Rope | ER-EF-Hydraulic | ER-2nd-GR-Hydrau. | |
| K301 | Relay | O-/Collecting Fault/ | O-/Collecting Fault/ | O-/Collecting Fault/ | O-/Collecting Fault/ | |
| K302 | Relay | O-Door-controlling D1 open | O-Door-controlling D1 open | O-Door-controlling D1 open | open | |
| K303 | Relay | O-Door-controlling D1 close | O-Door-controlling D1 close | O-Door-controlling D1 close | O-Door-controlling D1 close | |
| K304 | Relay | O-Door-controlling D2 open | O-Door-controlling D2 open | O-Door-controlling D2 open | O-Door-controlling D2 open | |
| K305 | Relay | O-Door-controlling D2 close | O-Door-controlling D2 close | close | O-Door-controlling D2 close | |
| K306 | Relay | O-Locked Magnet | O-Locked Magnet | O-Locked Magnet | O-Locked Magnet | |
| K307 | Relay | O- Car Pos. Indic1 | O- Car Pos. Indic1 | O-Emergency power Level reached | O-Emergency power Level reached | |
| K308 | Relay | O- Car Pos. Indic2 | O- Car Pos. Indic2 | O-No Function | O-No Function | |
| K309 K310 | Relay Relay | O- Car Pos. Indic3 O- Car Pos. Indic4 | O- Car Pos. Indic3 O- Car Pos. Indic4 | O-No Function O-Arrow up | O-No Function O-Arrow up | |
| K311 | Relay | O- Car Pos. Indic5 | O- Car Pos. Indic5 | O-Arrow down | O-Arrow down | |
| K312 | Relay | O-Remote Release | O-Remote Release | O-Remote Release | O-Remote Release | |
| K401 | Relay | Controlling D1 Open | Controlling D1 Open | Controlling D1 Open | Controlling D1 Open | |
| K402 | Relay | Controlling D1 Close | Controlling D1 Close | Controlling D1 Close | Controlling D1 Close | |
| K403 | Relay | Controlling D2 Open | Controlling D2 Open | Controlling D2 Open | Controlling D2 Open | |
| K404 | Relay | Controlling D2 Close | Controlling D2 Close | Controlling D2 Close | Controlling D2 Close | |
| K405 | Relay | O-Car Fan | O-Car Fan | O-Car Fan | O-Car Fan | |
| ZA-0 | 1/0 | I-Safery Circuit | I-Safery Circuit | I-Safery Circuit | I-Safery Circuit | |
| ZA-1 | 1/0 | I-Si-Zone | I-Si-Zone | I-Si-Zone | I-Si-Zone | |
| ZA-2 | I/O I/O | O-Releveling I-Brake open monitor | O-Releveling I-Brake open monitor | O-Releveling I-Brake open monitor | O-Releveling I-Brake open monitor | |
| ZA-3 ZA-4 | 1/0 | I-Brake open monitor | I-Brake open monitor | I-Brake open monitor | I-Brake open monitor | |
| ZA-4 ZA-5 | 1/0 | I-Releveling I/O | I-Releveling I/O | I-Releveling I/O | I-Releveling I/O | |
| ZA-5 ZA-6 | 1/0 | I-Releveling Up | I-Releveling Up | I-Releveling Up | I-Releveling Up | |
| ZA-7 | 1/O | I-Releveling Down | I-Releveling Down | I-Releveling Down | I-Releveling Down | |
| ZB-0 | I/O | I-ContactorMonitoring | I-ContactorMonitoring | I-ContactorMonitoring | I-ContactorMonitoring | |
| ZB-1 | I/O | I-Landing Control Off | I-Landing Control Off | I-Landing Control Off | I-Landing Control Off | |
| ZB-2 | I/O | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | |
| ZB-3 | I/O | I-Fire evac. F. prior.1 | I-Fire evac. F. prior.1 | I-Fire evac. F. prior.1 | I-Fire evac. F. prior.1 | |
| ZB-4 | I/O | I-Fire evac. F. prior.2 | O-Continued Travel Down F02 | I-Remote Release | I-Fire evac. F. prior.2 | |
| ZB-5 | I/O | I-Remote Release | O-Continued Travel Down F03 | I-Remote Release | I-Remote Release | |
| <u>ZB-6</u> | 1/0 | I-Fire brigade call | I-Fire brigade call | I-Fire brigade call | I-Fire brigade call | |
| ZB-7 ZC-0 | 1/O 1/O | I-Case of Fire | I-Case of Fire | I-Case of Fire | I-Case of Fire | |
| 20-0 | 1/0 | Detector-F01 | Detector-F01 | Detector-F01 | Detector-F01 | |
| ZC-1 | I/O | I-Case of Fire | I-Case of Fire | I-Case of Fire | I-Case of Fire | |
| | | Detector –F02 | Detector –F02 | Detector –F02 | Detector –F02 | |
| ZC-2 | I/O | I-Case of Fire | I-Case of Fire | I-Case of Fire | I-Case of Fire | |
| 70.0 | 1/0 | Detector – F03 | Detector – F03 | Detector – F03 | Detector – F03 | |
| ZC-3 | 1/0 | I-Case of Fire Detector – F04 | I-Case of Fire Detector – F04 | I-Case of Fire Detector – F04 | I-Case of Fire Detector – F04 | |
| ZC-4 | I/O | I-Case of Fire Detector –F05 | I-Case of Fire Detector –F05 | I-Case of Fire Detector –F05 | I-Case of Fire Detector –F05 | |
| ZC-5 | I/O | I-Case of Fire | I-Case of Fire | I-Case of Fire | I-Case of Fire | |
| -0-0 | "0 | Detector – F06 | Detector – F06 | Detector – F06 | Detector – F06 | |
| ZC-6 | I/O | I-Case of Fire | I-Case of Fire | I-Case of Fire | I-Case of Fire | |
| | | Detector –F07 | Detector –F07 | Detector –F07 | Detector –F07 | |
| ZC-7 | I/O | I-Case of Fire Detector –F08 | I-Case of Fire Detector –F08 | I-Case of Fire Detector –F08 | I-Case of Fire Detector –F08 | |
| ZD-0 | I/O | I-Case of Fire | I-Case of Fire | I-Case of Fire | I-Case of Fire | |
| | 1/0 | Detector – F09 | Detector – F09 | Detector – F09 | Detector – F09 | |
| 70 / | I/O | I-Case of Fire | I-Case of Fire Detector –F10 | I-Case of Fire Detector –F10 | I-Case of Fire Detector –F10 | |
| ZD-1 | | Detector – F10 | | | | |
| | I/O | I-Case of Fire | I-Case of Fire | I-Case of Fire | I-Case of Fire | |
| ZD-2 | I/O | I-Case of Fire Detector –F11 | I-Case of Fire Detector –F11 | Detector –F11 | Detector –F11 | |
| ZD-2 | | I-Case of Fire Detector –F11 I- Case of Fire | I-Case of Fire Detector –F11 I- Case of Fire | Detector –F11 I- Case of Fire | Detector –F11 I- Case of Fire | |
| ZD-2 ZD-3 | 1/O 1/O | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 | Detector –F11 I- Case of Fire Detector –F12 | Detector –F11 I- Case of Fire Detector –F12 | |
| ZD-2 ZD-3 | I/O | I-Case of Fire Detector –F11 I- Case of Fire | I-Case of Fire Detector –F11 I- Case of Fire | Detector –F11 I- Case of Fire | Detector –F11 I- Case of Fire | |
| ZD-2 ZD-3 ZD-4 | 1/O 1/O | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire | Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire | Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire | |
| ZD-2 ZD-3 ZD-4 ZD-5 | 1/O 1/O 1/O 1/O | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 | Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 | Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 | |
| ZD-2 ZD-3 ZD-4 ZD-5 | 1/O 1/O 1/O | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 I-Case of Fire | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 I-Case of Fire | Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 I-Case of Fire | Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 I-Case of Fire | |
| ZD-1 ZD-2 ZD-3 ZD-4 ZD-5 ZD-6 ZD-7 | 1/O 1/O 1/O 1/O | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 | I-Case of Fire Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 | Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 | Detector –F11 I- Case of Fire Detector –F12 I-Case of Fire Detector –F13 I-Case of Fire Detector –F14 | |



KW Aufzugstechnik GmbH **OPERATING MANUAL DAVID-2005 ZE-1** I/O I-Floor blockade F02 I-Floor blockade F02 I-Floor blockade F02 I-Floor blockade F02 **ZE-2** I/O I-Floor blockade F03 I-Floor blockade F03 I-Floor blockade F03 I-Floor blockade F03 **ZE-3** I/O I-Floor blockade F04 I-Floor blockade F04 I-Floor blockade F04 I-Floor blockade F04 **ZE-4** I/O I-Floor blockade F05 I-Floor blockade F05 I-Floor blockade F05 I-Floor blockade F05 ZE-5 I/O I-Floor blockade F06 I-Floor blockade F06 I-Floor blockade F06 I-Floor blockade F06 ZE-6 I/O I-Floor blockade F07 I-Floor blockade F07 I-Floor blockade F07 I-Floor blockade F07 **ZE-7** I/O I-Floor blockade F08 I-Floor blockade F08 I-Floor blockade F08 I-Floor blockade F08 **ZF-0** I/O I-Floor blockade F09 I-Floor blockade F09 I-Floor blockade F09 I-Floor blockade F09 I-Floor blockade F10 I-Floor blockade F10 I-Floor blockade F10 I-Floor blockade F10 ZF-1 1/0 ZF-2 I/O I-Floor blockade F11 I-Floor blockade F11 I-Floor blockade F11 I-Floor blockade F11 **ZF-3** I/O I-Floor blockade F12 I-Floor blockade F12 I-Floor blockade F12 I-Floor blockade F12 ZF-4 I/O I-Floor blockade F13 I-Floor blockade F13 I-Floor blockade F13 I-Floor blockade F13 **ZF-5** I/O I-Floor blockade F14 I-Floor blockade F14 I-Floor blockade F14 I-Floor blockade F14 ZF-6 I/O I-Floor blockade F15 I-Floor blockade F15 I-Floor blockade F15 I-Floor blockade F15 I/O I-Floor blockade F16 I-Floor blockade F16 I-Floor blockade F16 I-Floor blockade F16 ZF-7



OPERATING MANUAL DAVID-2005

| | | Frame-15 | Frame-16 | Frame-17 | Frame-18 | Frame-19 |
|--------------|-----------------------|---|--|---|---|----------|
| | L | ER-EF-Rope | ER-2er-GR-Rope | ER-EF-Hydraulic | ER-2er-GR-Hydrau. | |
| ZR401 | Output | O-Emer. Power oper. | O-Emer. Power oper. | O-Emer. Power oper. | O-Emer. Power oper. | |
| ZR402 | Output | O-Emer. Power drive | O-Emer. Power drive | O-Emer. Power drive | O-Emer. Power drive | |
| ZR404 | Output | O-Restarting | O-Restarting | O-Restarting | O-Restarting | |
| Z-S30 | Output ontroller F | Cab Light Off | Cab Light Off | Cab Light Off | Cab Light Off | |
| FE-0 | I/O | I-Overload | I-Overload | I-Overload | I-Overload | |
| FE-1 | I/O | I- Safety Photocell | I- Safety Photocell | I- Safety Photocell | I- Safety Photocell | |
| FE-2 | I/O | I- Full Load | I- Full Load | I- Full Load | I- Full Load | |
| FE-3 | I/O | I- No Function | I- No Function | I- No Function | I- No Function | |
| FE-4 | I/O | I- No Function | I- No Function | I- No Function | I- No Function | |
| FE-5 FE-6 | I/O I/O | I- No Function | I- No Function I- No Function | I- No Function I- No Function | I- No Function | |
| FE-7 | 1/0 | I- No Function | I- No Function | I- No Function | I- No Function | |
| FF-0 | I/O | I-Photocell D1 | I-Photocell D1 | I-Photocell D1 | I-Photocell D1 | |
| FF-1 | I/O | I-Reverse Contakt D1 | I-Reverse Contakt D1 | I-Reverse Contakt D1 | I-Reverse Contakt D1 | |
| FF-2 | I/O | I-Door end switcher | I-Door end switcher | I-Door end switcher | I-Door end switcher | |
| FF-3 | I/O | Open D1 I-Door end switcher | Open D1 I-Door end switcher | Open D1 I-Door end switcher | Open D1 I-Door end switcher | |
| гг-з | 1/0 | Close D1 | Close D1 | Close D1 | Close D1 | |
| FF-4 | I/O | I-Photocell D2 | I-Photocell D2 | I-Photocell D2 | I-Photocell D2 | |
| FF-5 | I/O | I-Reverse Contakt D2 | I-Reverse Contakt D2 | I-Reverse Contakt D2 | I-Reverse Contakt D2 | |
| FF-6 | I/O | I-Door end switcher | I-Door end switcher | I-Door end switcher | I-Door end switcher | |
| FF-7 | I/O | Open D2 I-Door end switcher | Open D2 I-Door end switcher | Open D2 I-Door end switcher | Open D2 I-Door end switcher | |
| 11/ | "0 | Close D2 | Close D2 | Close D2 | Close D2 | |
| Car Inc | dicator Bo | oard EIT | | | | • |
| ID-0 | I/O | I/O- Car Call - F1 | I/O- Car Call - F1 | I/O- Car Call - F1 | I/O- Car Call - F1 | |
| ID-1 | I/O | I/O- Car Call – F2 | I/O- Car Call – F2 | I/O- Car Call – F2 | I/O- Car Call – F2 | |
| ID-2 ID-3 | I/O I/O | I/O- Car Call –F3 I/O- Car Call – F4 | I/O- Car Call –F3 I/O- Car Call – F4 | I/O- Car Call –F3 I/O- Car Call – F4 | I/O- Car Call –F3 I/O- Car Call – F4 | |
| ID-3 ID-4 | 1/O | I/O- Car Call – F4 | I/O- Car Call – F5 | 1/0- Car Call – F4 | 1/0- Car Call – F4 | |
| ID-5 | I/O | I/O- Car Call – F6 | I/O- Car Call – F6 | I/O- Car Call – F6 | I/O- Car Call – F6 | |
| ID-6 | I/O | I/O- Car Call – F7 | I/O- Car Call – F7 | I/O- Car Call – F7 | I/O- Car Call – F7 | |
| ID-7 | I/O | I/O- Car Call – F8 | I/O- Car Call – F8 | I/O- Car Call – F8 | I/O- Car Call – F8 | |
| IC-0 | I/O | I/O- Car Call - F9 | I/O- Car Call - F9 | O- Car Pos. Indic1 | O- Car Pos. Indic1 | |
| IC-1 IC-2 | I/O I/O | I/O- Car Call – F10 I/O- Car Call – F11 | I/O- Car Call – F10 I/O- Car Call – F11 | O- Car Pos. Indic2 O- Car Pos. Indic3 | O- Car Pos. Indic2 O- Car Pos. Indic3 | |
| IC-2 | 1/O | I/O- Car Call – F11 | I/O- Car Call- F12 | O- Car Pos. Indic3 | O- Car Pos. Indic3 | |
| IC-4 | I/O | O- Car Pos. Indic1 | O- Car Pos. Indic1 | O- Car Pos. Indic5 | O- Car Pos. Indic5 | |
| IC-5 | I/O | O- Car Pos. Indic2 | O- Car Pos. Indic2 | O- Car Pos. Indic6 | O- Car Pos. Indic6 | |
| IC-6 | I/O | O- Car Pos. Indic3 | O- Car Pos. Indic3 | O- Car Pos. Indic7 | O- Car Pos. Indic7 | |
| IC-7 | I/O | O- Car Pos. Indic4 | O- Car Pos. Indic4 | O- Car Pos. Indic8 | O- Car Pos. Indic8 | |
| IE-0 | 1/0 1/0 | I-Door 1 Open | I-Door 1 Open | I-Door 1 Open | I-Door 1 Open I-Door 1 Close | |
| IE-1 IE-2 | 1/O | I-Door 1 Close I-Door 2 Open | I-Door 1 Close I-Door 2 Open | I-Door 1 Close I-Door 2 Open | I-Door 2 Open | |
| IE-3 | I/O | O-Overlaod | O-Overlaod | O-Overlaod | O-Overlaod | |
| IE-4 | I/O | I-Button Fan | I-Button Fan | I-Button Fan | I-Button Fan | |
| IE-5 | I/O | I-Car Priority | I-Car Priority | I-Car Priority | I-Car Priority | |
| IE-6 | 1/0 | O-Cab Arrow Up | O-Cab Arrow Up | O-Cab Arrow Up | O-Cab Arrow Up | |
| IE-7 | I/O | O-Cab Arrow Down troller ITR-1 and ITR-2 | O-Cab Arrow Down | O-Cab Arrow Down | O-Cab Arrow Down | |
| IA-0 | Output | O- Car Pos. Indic1 | O- Car Pos. Indic1 | O- Car Pos. Indic1 | O- Car Pos. Indic1 | |
| IA-0 | Output | O- Car Pos. Indic2 | O- Car Pos. Indic2 | O- Car Pos. Indic2 | O- Car Pos. Indic2 | |
| IA-2 | Output | O- Car Pos. Indic3 | O- Car Pos. Indic3 | O- Car Pos. Indic3 | O- Car Pos. Indic3 | |
| IA-3 | Output | O- Car Pos. Indic4 | O- Car Pos. Indic4 | O- Car Pos. Indic4 | O- Car Pos. Indic4 | |
| IA-4 | Output | O- Car Pos. Indic5 | O- Car Pos. Indic5 | O- Car Pos. Indic5 | O- Car Pos. Indic5 | |
| IA-5 IA-6 | Output Output | O- Car Pos. Indic6 O- Car Pos. Indic7 | O- Car Pos. Indic6 O- Car Pos. Indic7 | O- Car Pos. Indic6 O- Car Pos. Indic7 | O- Car Pos. Indic6 O- Car Pos. Indic7 | |
| IA-6 IA-7 | Output | O- Car Pos. Indic7 O- Car Pos. Indic8 | O- Car Pos. Indic7 O- Car Pos. Indic8 | O- Car Pos. Indic7 | O- Car Pos. Indic7 | |
| IB-0 | Output | O-Cab Arrow Up | O-Cab Arrow Up | O-Cab Arrow Up | O-Cab Arrow Up | |
| IB-1 | Output | O-Cab Arrow Down | O-Cab Arrow Down | O-Cab Arrow Down | O-Cab Arrow Down | |
| IB-2 | Output | O-Overlaod | O-Overlaod | O-Overlaod | O-Overlaod | |
| IB-3 | Output | O-Messaging Fan | O-Messaging Fan | O-Messaging Fan | O-Messaging Fan | |
| IB-4 | 1/0 | O-Evacuation | O-Evacuation | O-Evacuation | O-Evacuation | |
| IB-5 IB-6 | 1/0 1/0 | O- Emer.Power oper. O-Out Of Operation | O- Emer.Power oper. O-Out Of Operation | O- Emer.Power oper. O-Out Of Operation | O- Emer.Power oper. O-Out Of Operation | |
| IB-0 | 1/0 | O-Special Drive | O-Special Drive | O-Special Drive | O-Special Drive | |
| IC-0 | I/O | I/O Car Call - F1 | I/O Car Call - F1 | I/O Car Call - F1 | I/O Car Call - F1 | |
| IC-1 | I/O | I/O Car Call – F2 | I/O Car Call – F2 | I/O Car Call – F2 | I/O Car Call – F2 | |
| IC-2 | I/O | I/O Car Call – F3 | I/O Car Call – F3 | I/O Car Call – F3 | I/O Car Call – F3 | |
| IC-3 | I/O | I/O Car Call – F4 | I/O Car Call – F4 | I/O Car Call – F4 | I/O Car Call – F4 | |



KW Aufzugstechnik GmbH OPERATING MANUAL DAVID-2005

| | Aufzugstechnik Gn | | technik GmbH | | RATING MANUAL D | AVID-2005 |
|---|--|---|---|--|--|-----------|
| IC-4 | I/O | I/O Car Call – F5 | I/O Car Call – F5 | I/O Car Call – F5 | I/O Car Call – F5 | |
| IC-5 | I/O | I/O Car Call – F6 | I/O Car Call – F6 | I/O Car Call – F6 | I/O Car Call – F6 | |
| IC-6 | I/O | I/O Car Call – F7 | I/O Car Call – F7 | I/O Car Call – F7 | I/O Car Call – F7 | |
| IC-7 | I/O | I/O Car Call – F8 | I/O Car Call – F8 | I/O Car Call – F8 | I/O Car Call – F8 | |
| ID-0 | I/O | I/O Car Call – F9 | I/O Car Call – F9 | I/O Car Call – F9 | I/O Car Call – F9 | |
| ID-1 | I/O | I/O Car Call - F10 | I/O Car Call - F10 | I/O Car Call - F10 | I/O Car Call - F10 | |
| ID-2 | I/O | I/O Car Call - F11 | I/O Car Call - F11 | I/O Car Call - F11 | I/O Car Call - F11 | |
| ID-3 | I/O | I/O Car Call - F12 | I/O Car Call - F12 | I/O Car Call - F12 | I/O Car Call - F12 | |
| ID-4 | I/O | I/O Car Call - F13 | I/O Car Call - F13 | I/O Car Call - F13 | I/O Car Call - F13 | |
| ID-5 | I/O | I/O Car Call - F14 | I/O Car Call - F14 | I/O Car Call - F14 | I/O Car Call - F14 | |
| ID-6 | I/O | I/O Car Call - F15 | I/O Car Call - F15 | I/O Car Call - F15 | I/O Car Call - F15 | |
| ID-7 | I/O | I/O Car Call - F16 | I/O Car Call - F16 | I/O Car Call - F16 | I/O Car Call - F16 | |
| IE-0 | Input | I-Door-1 Open | I-Door-1 Open | I-Door-1 Open | I-Door-1 Open | |
| IE-1 | Input | I-Door-1 Close | I-Door-1 Close | I-Door-1 Close | I-Door-1 Close | |
| IE-2 | Input | I-Door-2 Open | I-Door-2 Open | I-Door-2 Open | I-Door-2 Open | |
| IE-3 | Input | I-Door-2 Close | I-Door-2 Close | I-Door-2 Close | I-Door-2 Close | |
| IE-4 | Input | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | |
| IE-5 | Input | I-Car Priority | I-Car Priority | I-Car Priority | I-Car Priority | |
| IE-6 | Input | I-Button Fan | I-Button Fan | I-Button Fan | I-Button Fan | |
| IE-7 | Input | I-Ramp Travel | I-Ramp Travel | I-Ramp Travel | I-Ramp Travel | |
| | sion Unit | | | | | |
| 21g | 1/0 | O-Car in drive | O-Car in drive | O-Car in drive | O-Car in drive | |
| | | | | | | |
| 22g | 1/0 | O-D.&Block contact | O-D.&Block contact | O-D.&Block contact | O-D.&Block contact | |
| 23g | 1/0 | O-S. circuit switcher | O-S. circuit switcher | O-S. circuit switcher | O-S. circuit switcher | |
| 24g | I/O | A-Ready for Use | A-Ready for Use | A-Ready for Use | A-Ready for Use | |
| 25g | I/O | O-Calls are present | O-Calls are present | O-Calls are present | O-Calls are present | |
| 26g | I/O | Com. Door1 open | Com. Door1 open | Com. Door1 open | Com. Door1 open | |
| 27g | I/O | Com. Door1 close | Com. Door1 close | Com. Door1 close | Com. Door1 close | |
| 28g | I/O | Drive without door | Drive without door | Drive without door | Drive without door | |
| | | opening | opening | opening | opening | |
| 29g | I/O | /normal operation/ | /normal operation/ | /normal operation/ | /normal operation/ | |
| 30g | I/O | Com. Door2 open | Com. Door2 open | Com. Door2 open | Com. Door2 open | |
| 31g | I/O | Com. Door2 close | Com. Door2 close | Com. Door2 close | Com. Door2 close | |
| 32g | I/O | free | free | free | free | |
| 33g | I/O | free | free | free | free | |
| 34g | I/O | free | free | free | free | |
| 35g | I/O | free | free | free | free | |
| | | liee | liee | free | free | |
| 36g | 1/0 | free | free | free | free | |
| 36g | | free | free | | free | |
| 36g | I/O | free | | | | |
| 36g Remo | I/O te Station | free ER-2004 | free | free | free | |
| 36g Remot 2xA | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 | free I/O Land. Call Up D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 | free I/O Land. Call Up D1 | |
| 36g Remot 2xA | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 | free I/O Land. Call Up D1 I/O Land. Call Down | free I/O Land. Call Up D1 I/O Land. Call Down | |
| 36g Remot 2xA 2xB | I/O te Station I/O I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 | |
| 36g Remot 2xA 2xB 2xC | /O te Station /O /O /O /O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 | |
| 36g Remot 2xA 2xB 2xC | /O te Station /O /O /O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 | |
| 36g Remot 2xA 2xB 2xC 2xD | /O te Station /O /O /O /O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 | |
| 36g Remot 2xA 2xB 2xC 2xD 97A | I/O te Station I/O I/O I/O I/O I/O I/O I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 O-Floor Arror Up D1 O-Floor Arror Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 | |
| 36g Remot 2xA 2xB 2xC 2xD 97A | 1/O te Station 1/O 1/O 1/O 1/O 1/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Up D2 | |
| 36g Remot 2xA 2xB 2xC 2xC 97A 98A | I/O te Station I/O I/O I/O I/O I/O I/O I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 98A 97B 98B | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Up D2 | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 98A 97B 98B | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 ER-2005 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Up D2 O- Arror Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Up D2 O- Arror Down D1 | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 97A 97B 98B Remoi 2xA | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 O-Floor Arror Up D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 ER-2005 I/O Land. Call Up D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Down D1 I/O Land. Call Up D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Up D2 O- Arror Down D1 I/O Land. Call Up D1 | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 98A 97B 98B Remoi | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D2 O-Floor Arror Up D1 O-Floor Arror Up D2 O-Floor Arror Down D1 ER-2005 I/O Land. Call Up D1 I/O Land. Call Down | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O- Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 98A 97B 98B Remoi 2xA 2xB | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 O-Floor Arror Up D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 O-Floor Arror Down D1 ER-2005 I/O Land. Call Up D1 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Up D2 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O-Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 97A 97B 98B Remoi 2xA | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 O-Floor Arror Down D1 ER-2005 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Up D2 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O-Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D3 I/O Land. Call Up D4 I/O Land. Call U | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 98A 97B 98B Remoi 2xA 2xB | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 O-Floor Arror Down D1 ER-2005 I/O Land. Call Up D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Up D2 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O-Call Up 2 O-Floor Arror Up D1 O-Floor Arror Down D1 O-Floor Arror Up D2 O-Floor Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 98A 97B 98B 97B 98B 88B 2xA 2xB 2xC 2xD | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 ER-2005 I/O Land. Call Up D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Up D2 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O-Call Up 2 O-Floor Arror Up D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 I/O Land. Call Down D2 | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 98A 97B 98B 97B 98B Remoi 2xA 2xB 2xC 2xD 97A | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 ER-2005 I/O Land. Call Up D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 I/O Land. Call Down D1 I/O Land. Call Down D1 I/O Land. Call Down D2 O-Floor Arror Up D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Up D2 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D1 I/O Land. Call Down D1 I/O Land. Call Down D1 I/O Land. Call Down D1 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O-Call Up 2 O-Floor Arror Up D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 I/O Land. Call Down D1 I/O Land. Call Down D1 I/O Land. Call Down D2 O-Floor Arror Up D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Down D2 O- Arror Up D1 O- Arror Up D1 O- Arror Up D2 O- Arror Up D1 I/O Land. Call Down D1 I/O Land. Call Down D2 O- Arror Up D1 | |
| 36g Remoi 2xA 2xB 2xC 2xD 97A 98A 97B 98B 97B 98B 88B 2xA 2xB 2xC 2xD | I/O te Station I/O | free ER-2004 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 ER-2005 I/O Land. Call Up D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 I/O Land. Call Down D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Up D2 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 | free I/O Land. Call Up D1 I/O Land. Call Down D1 I/O-Call Up 1 I/O-Call Up 2 O-Floor Arror Up D1 O-Floor Arror Up D2 O-Floor Arror Up D2 O-Floor Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Up D2 I/O Land. Call Down D1 I/O Land. Call Down D2 | free I/O Land. Call Up D1 I/O Land. Call Down D1 Landing Priority O1 Landing Priority O2 O- Arror Up D1 O- Arror Down D1 O- Arror Down D1 I/O Land. Call Up D1 I/O Land. Call Down D1 I/O Land. Call Up D2 I/O Land. Call Down D2 I/O Land. Call Down D2 | |
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| | Aufzugstechnik G | KW Aufzugs | technik GmbH | OPE | RATING MANUAL E | DAVID-2005 |
|-----|------------------|----------------------|-----------------------|----------------------|-----------------------|------------|
| 21h | I/O | O-Car Pos.Indicator2 | O-Car P.Indicator2-O1 | O-Car Pos.Indicator2 | O-Car P.Indicator2-O1 | |
| 23h | I/O | O-Car Pos.Indicator3 | O-Car P.Indicator3-O1 | O-Car Pos.Indicator3 | O-Car P.Indicator3-O1 | |
| 24h | I/O | O-Car Pos.Indicator4 | O-Car P.Indicator4-O1 | O-Car Pos.Indicator4 | O-Car P.Indicator4-O1 | |
| 25h | I/O | O-Car Pos.Indicator5 | O-Car P.Indicator5-O2 | O-Car Pos.Indicator5 | O-Car P.Indicator5-O2 | |
| 26h | I/O | O-Car Pos.Indicator6 | O-Car P.Indicator6-O2 | O-Car Pos.Indicator6 | O-Car P.Indicator6-O2 | |
| 27h | I/O | O-Car Pos.Indicator7 | O-Car P.Indicator7-O2 | O-Car Pos.Indicator7 | O-Car P.Indicator7-O2 | |
| 28h | I/O | O-Car Pos.Indicator8 | O-Car P.Indicator8-O2 | O-Car Pos.Indicator8 | O-Car P.Indicator8-O2 | |



| | | Frame-1 | Frame-2 | Frame-3 | Frame-4 | Frame-5 |
|--------------|------------------|-----------------------------------|--|--|---|----------------------------------|
| | | 1KS-8HS | 1KS-16HS | 2KS-07HS | 2KS-13HS | 2KS-ER-BV |
| K301 | Relay | O-/Collecting Fault/ | O-/Collecting Fault/ | O-/Collecting Fault/ | O-/Collecting Fault/ | O-/Collecting Fault/ |
| K302 | Relay | O-Door-controlling D1 | O-Door-controlling D1 | O-Door-controlling D1 | O-Door-controlling D1 | O-Door-controlling D1 |
| 1/202 | Delay | open | open | open O-Door-controlling D1 | open | open O-Door-controlling D1 |
| K303 | Relay | O-Door-controlling D1 close | O-Door-controlling D1 close | close | O-Door-controlling D1 close | close |
| K304 | Relay | O-Door-controlling D2 | O-Door-controlling D2 | O-Door-controlling D2 | O-Door-controlling D2 | O-Door-controlling D2 |
| | riolay | open | open | open | open | open |
| K305 | Relay | O-Door-controlling D2 | O-Door-controlling D2 | O-Door-controlling D2 | O-Door-controlling D2 | O-Door-controlling D2 |
| | | close | close | close | close | close |
| K306 | Relay | O-Locked Magnet | O-Locked Magnet | O-Locked Magnet | O-Locked Magnet | O-Locked Magnet |
| K307 | Relay | O- Emer.Power oper. | O- Emer.Power oper. | O- Emer.Power oper. | O- Emer.Power oper. | O- Emer.Power oper. |
| K308 | Relay | I- No Function | I- No Function | I- No Function | I- No Function | I- No Function |
| K309 K310 | Relay Relay | I- No Function O- Arror Up D1 | I- No Function O- Arror Up D1 | I- No Function O- Arror Up D1 | I- No Function O- Arror Up D1 | I- No Function O- Arror Up D1 |
| K311 | Relay | O- Arror Down D1 | O- Arror Down D1 | O- Arror Down D1 | O- Arror Down D1 | O- Arror Down D1 |
| K312 | Relay | I-Out of Use | O-Out of Use | O-Out of Use | O-Out of Use | O-Out of Use |
| K401 | Relay | Com. Door1 open | Com. Door1 open | Com. Door1 open | Com. Door1 open | Com. Door1 open |
| K402 | Relay | Com. Door1 close | Com. Door1 close | Com. Door1 close | Com. Door1 close | Com. Door1 close |
| K403 | Relay | Com. Door2 open | Com. Door2 open | Com. Door2 open | Com. Door2 open | Com. Door2 open |
| K404 | Relay | Com. Door2 close | Com. Door2 close | Com. Door2 close | Com. Door2 close | Com. Door2 close |
| K405 | Relay | O-Lobby monitor | O-Lobby monitor | O-Lobby monitor | O-Lobby monitor | O-Lobby monitor |
| K406 | Relay | O-Cab Fan | O-Cab Fan | O-Cab Fan | O-Cab Fan | O-Cab Fan |
| ZA-0 | Input | I-Safety Circuit | I-Safety Circuit | I-Safety Circuit | I-Safety Circuit | I-Safety Circuit |
| ZA-1 | Input | E-Brake FU | E-Brake FU | E-Brake FU | E-Brake FU | E-Brake FU |
| ZA-2 | Input | E-Distrubance FU | E-Distrubance FU | E-Distrubance FU | E-Distrubance FU | E-Distrubance FU |
| ZA-3 | Input | E-Si-Zone | E-Si-Zone | E-Si-Zone | E-Si-Zone | E-Si-Zone |
| ZA-4 | Input | O-Overlaod | O-Overlaod | O-Overlaod | O-Overlaod | O-Overlaod |
| ZB-0 | Input | I-ContactorMonitoring | I-ContactorMonitoring | I-ContactorMonitoring | I-ContactorMonitoring | I-ContactorMonitoring |
| ZB-1 | Input | I-Landing control Off | I-Landing control Off | I-Landing control Off | I-Landing control Off | I-Landing control Off |
| ZB-2 | Input | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off | I-Control& Light Off |
| ZB-3 | Input | I-Brake open monitor | I-Brake open monitor | I-Brake open monitor | I-Brake open monitor | I-Brake open monitor |
| ZB-4 | Input | I-Brake shoe monitor | I-Brake shoe monitor | I-Brake shoe monitor | I-Brake shoe monitor | I-Brake shoe monitor |
| ZB-5 | Input | I-Fire evac. F. prior.1 | I-Fire evac. F. prior.1 | I-Fire evac. F. prior.1 | I-Fire evac. F. prior.1 | I-Fire evac. F. prior.1 |
| ZB-6 | Input | I-Fire evac. F. prior.2 | I-Fire evac. F. prior.2 | I-Fire evac. F. prior.2 | I-Fire evac. F. prior.2 | I-Fire evac. F. prior.2 |
| ZB-7 | Input | E-FW-Anholung | E-FW-Anholung | E-FW-Anholung A-Nachholen | E-FW-Anholung | E-FW-Anholung |
| ZC-0 ZC-1 | Output Output | A-Nachholen O-Continued Travel | A-Nachholen I- No Function | O-Car P. Indicator-1 | A-Nachholen O-Car P. Indicator-1 | A-Nachholen I- No Function |
| | | Up F01 | | | | |
| ZC-2 | Output | O-Continued Travel Up F02 | I- No Function | O-Car P. Indicator-2 | O-Car P. Indicator-2 | I- No Function |
| ZC-3 | Output | O-Continued Travel Up F03 | I- No Function | O-Car P. Indicator-3 | O-Car P. Indicator-3 | I- No Function |
| ZC-4 | Output | O-Continued Travel Up F04 | I- No Function | O-Car P. Indicator-4 | O-Car P. Indicator-4 | I- No Function |
| ZC-5 | Output | O-Continued Travel Up F05 | I-not in use | O-Car P. Indicator-5 | O-Car P. Indicator-5 | I-Not in Use |
| ZC-6 | Output | O-Continued Travel | I-Overload | O-Car P. Indicator-6 | O-Car P. Indicator-6 | I-Overload |
| | <u> </u> | Up F06 | | | | |
| ZC-7 | Output | O-Continued Travel Up F07 | O-Collecting fault signal | O-Car P. Indicator-7 | O-Car P. Indicator-7 | O-Collecting fault signal |
| ZD-0 | I/O | I/O Car Call - F1 | I/O Car Call - F1 | I/O Car Call Up- F1 | I/O Car Call Up- F1 | I-Case of Fire Detector-F01 |
| ZD-1 | I/O | I/O Car Call – F2 | I/O Car Call – F2 | I/O Car Call Up– F2 | I/O Car Call Up– F2 | I-Case of Fire Detector –F02 |
| ZD-2 | I/O | I/O Car Call – F3 | I/O Car Call – F3 | I/O Car Call Up– F3 | I/O Car Call Up– F3 | I-Case of Fire Detector – F03 |
| ZD-3 | I/O | I/O Car Call – F4 | I/O Car Call – F4 | I/O Car Call Up– F4 | I/O Car Call Up– F4 | I-Case of Fire Detector – F04 |
| ZD-4 | I/O | I/O Car Call – F5 | r Call – F5 I/O Car Call – F5 I/O Car Call Up– F5 I/O Car Call Up– F5 I- | | I-Case of Fire Detector –F05 | |
| ZD-5 | I/O | I/O Car Call – F6 | I/O Car Call – F6 | I/O Car Call Up– F6 | I/O Car Call Up– F6 | I-Case of Fire Detector – F06 |
| ZD-6 | I/O | I/O Car Call – F7 | I/O Car Call – F7 | Call – F7 I/O Car Call Down– I/O Car Call Up– F7 I-Case of F | | I-Case of Fire Detector – F07 |
| ZD-7 | I/O | I/O Car Call – F8 | I/O Car Call – F8 | Car Call – F8 I/O Car Call Down– I/O Car Call Up– F8 I-Case of F | | I-Case of Fire Detector –F08 |
| ZE-0 | I/O | I- No Function | I/O Car Call – F9 | I/O Car Call Down– F4 | I/O Car Call Up– F9 Detector – F08 I-Case of Fire Detector – F09 | |
| ZE-1 | I/O | I- No Function | I/O Car Call - F10 | I/O Car Call Down– F5 | I/O Car Call Up- F10 | I-Case of Fire Detector –F10 |
| ZE-2 | I/O | I- No Function | I/O Car Call - F11 | I/O Car Call Down- | I/O Car Call Up- F11 | I-Case of Fire |
| | | | | F6 | | Detector –F11 |

| kw | |
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| Aufzugstechnik GmbH | |

| | ugstechnik GmbH | KW Aufzugst | echnik GmbH | OPE | RATING MANUAL I | DAVID-2005 |
|------|-----------------|--------------------------------|----------------------|--------------------------------|---------------------------|----------------------------------|
| ZE-3 | I/O | I- No Function | I/O Car Call - F12 | I/O Car Call Down– F7 | I/O Car Call Up- F12 | I- Case of Fire Detector –F12 |
| ZE-4 | I/O | I- No Function | I/O Car Call - F13 | O-Continued Travel Up F01 | I/O Car Call Down– F2 | I-Floor blockade F01 |
| ZE-5 | I/O | O-Continued Travel Down F06 | I/O Car Call - F14 | O-Continued Travel Up F02 | I/O Car Call Down– F3 | I-Floor blockade F02 |
| ZE-6 | I/O | O-Continued Travel Down F07 | I/O Car Call - F15 | O-Continued Travel Up F03 | I/O Car Call Down– F4 | I-Floor blockade F03 |
| ZE-7 | I/O | O-Continued Travel Down F08 | I/O Car Call - F16 | O-Continued Travel Up F04 | I/O Car Call Down– F5 | I-Floor blockade F04 |
| ZF-0 | I/O | O-Car P. Indicator-1 | O-Car P. Indicator-1 | O-Continued Travel Up F05 | I/O Car Call Down– F6 | I-Floor blockade F05 |
| ZF-1 | I/O | O-Car P. Indicator-2 | O-Car P. Indicator-2 | O-Continued Travel Up F06 | I/O Car Call Down– F7 | I-Floor blockade F06 |
| ZF-2 | I/O | O-Car P. Indicator-3 | O-Car P. Indicator-3 | O-Continued Travel Down F02 | I/O Car Call Down– F8 | I-Floor blockade F07 |
| ZF-3 | I/O | O-Car P. Indicator-4 | O-Car P. Indicator-4 | O-Continued Travel Down F03 | I/O Car Call Down– F9 | I-Floor blockade F08 |
| ZF-4 | I/O | O-Car P. Indicator-5 | O-Car P. Indicator-5 | O-Continued Travel Down F04 | I/O Car Call Down– F10 | I-Floor blockade F09 |
| ZF-5 | I/O | O-Car P. Indicator-6 | O-Car P. Indicator-6 | O-Continued Travel Down F05 | I/O Car Call Down- F11 | I-Floor blockade F10 |
| ZF-6 | I/O | O-Car P. Indicator-7 | O-Car P. Indicator-7 | O-Continued Travel Down F06 | I/O Car Call Down- F12 | I-Floor blockade F11 |
| ZF-7 | I/O | O-Car P. Indicator-8 | O-Car P. Indicator-8 | O-Continued Travel Down F07 | I/O Car Call Down- F13 | I-Floor blockade F12 |

I



OPERATING MANUAL DAVID-2005

| | | Frame-1 | Frame-2 | Frame-3 | Frame-4 | Frame-5 |
|---------------------|------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | | 1KS-8HS | 1KS-16HS | 2KS-07HS | 2KS-13HS | 2KS-ER-BV |
| ZR401 | Input | O-Emer. Power oper. |
| ZR402 | Input | O-Emer. Power drive |
| ZR404 | Input | O-Restarting | O-Restarting | O-Restarting | O-Restarting | O-Restarting |
| Z-S30 | Input | Cab Light Off |
| | ntroller F | | | | | |
| FE-0 | 1/0 | I-Overload | I-Overload | I-Overload | I-Overload | I-Overload |
| FE-1 | 1/0 | I- Safety Photocell |
| FE-2 | 1/0 | I- Full Load |
| FE-3 | 1/0 | I-No Function |
| FE-4 | 1/0 | I-No Function |
| FE-5 | 1/0 | I-No Function |
| FE-6 | 1/0 | I-No Function |
| FE-7 | 1/0 | I-No Function |
| | | troller ITR-1 | | | | |
| IA-0 | Output | O-Car P. Indicator-1 |
| IA-1 | Output | O-Car P. Indicator-2 |
| IA-2 | Output | O-Car P. Indicator-3 |
| IA-2 | Output | O-Car P. Indicator-4 |
| IA-3 IA-4 | Output | O-Car P. Indicator-5 |
| IA-4 | Output | O-Car P. Indicator-6 |
| IA-5 IA-6 | Output | O-Car P. Indicator-7 |
| IA-0 IA-7 | Output | O-Car P. Indicator-8 |
| IB-0 | Output | O-Car Arrow Up |
| IB-0 | Output | O-Car Arrow Down |
| IB-1 | Output | O-Overload | O-Overload | O-Overload | O-Overload | O-Overload |
| IB-2 IB-3 | Output | O-Messagering Fan |
| IB-3 IB-4 | I/O | O-Evacuation | O-Evacuation | O-Intessagening Fail | O-Evacuation | O-Intessagering Pair |
| | 1/0 | O-Evacuation O- Emer.Power oper. | O-Evacuation O- Emer.Power oper. | O-Evacuation O- Emer.Power oper. | O-Evacuation O- Emer.Power oper. | O-Evacuation O- Emer.Power oper |
| IB-5 | 1/0 | | | | | |
| IB-6 IB-7 | 1/0 | O-Out Of Operation O-Special Drive |
| | - | | | | | |
| IE-0 | Input | I-Door-1 Up | I-Door-1 Up | I-Door-1 Up I-Door-1 Down | I-Door-1 Up | I-Door-1 Up |
| <u>IE-1</u> | Input | I-Door-1 Down | I-Door-1 Down | | I-Door-1 Down | I-Door-1 Down |
| IE-2 | Input | I-Door-2 Up |
| IE-3 | Input | I-Door-2 Down |
| IE-4 | Input | I-Con.& Light Off |
| IE-5 | Input | I-Car Priority |
| IE-6 | Input | I-Taster Fan |
| <u>IE-7</u> | Input | I-Ramp Travel |
| | | troller ITR-2 | O O an D I a dia atau 4 | O O an D Indiantan 1 | O O an D In dia atam 4 | O O an D In dia atom 4 |
| IA-0 | Output | O-Car P. Indicator-1 |
| IA-1 | Output | O-Car P. Indicator-2 |
| IA-2 | Output | O-Car P. Indicator-3 |
| IA-3 | Output | O-Car P. Indicator-4 |
| IA-4 | Output | O-Car P. Indicator-5 |
| IA-5 | Output | O-Car P. Indicator-6 |
| IA-6 | Output | O-Car P. Indicator-7 |
| IA-7 | Output | O-Car P. Indicator-8 |
| IB-0 | Output | O-Car Arrow Up |
| IB-1 | Output | O-Car Arrow Down |
| IB-2 | Output | O-Overload | O-Overload | O-Overload | O-Overload | O-Overload |
| IB-3 | Output | O-Messagering Fan |
| IB-4 | I/O | O-Evacuation | O-Evacuation | O-Evacuation | O-Evacuation | O-Evacuation |
| IB-5 | I/O | O- Emer.Power oper. | O- Emer.Power oper. | O- Emer.Power oper. | O- Emer.Power oper. | O- Emer.Power oper |
| IB-6 | I/O | O-Out Of Operation |
| IB-7 | I/O | O-Special Drive |
| IE-0 | Input | I-Door-1 Up |
| IE-1 | Input | I-Door-1 Down |
| IE-2 | Input | I-Door-2 Up |
| IE-3 | Input | I-Door-2 Down |
| IE-4 | Input | I-Con.& Light Off |
| | Input | I-Car Priority |
| IE-5 | | | | , | , | |
| <u>IE-5</u> IE-6 | Input | I-Taster Fan |

Die Ein- und Ausgänge der Zusatzgruppe ZG und ER sind unbelegt.



C0 Control Reset over the hand programming device

In the submenu C0 RESET is to be put back it possible the control computers. Case during the assembly enterprise or error tracing to a condition to come the control should be caused locked can over the HPG60 a control RESET in that. For example it is possible by setting car calls to move the cab again.

C1 Call input over the hand programming device

In the submenu C1 call input is to be called it possible the point C10 car calls. With the help of the two right key and the enter key car calls can be see, which are then processed of the control.

HPG60 can be attaced at Central-unit, Car-controller and Car-calling-controller. You have the possibility to give inside commands from different places.

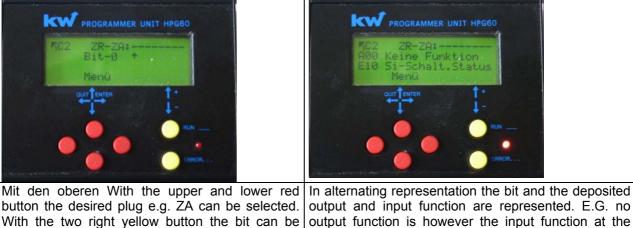
The **menu option C11** landing calls is not activable at present.

In the **menu opion C12** of random calls inside the random number generator for car calls an be activated. The function can be scheduled temporally by input of a temporal upper limit of up to 48,0 hours.

In the **menu option C13** of random calls outside the random number generate for landing calls can be activated. The function can be scheduled likewise temporally by input of a temporal upper limit of up to 48.0 hours.

C2 Input and Output signals

In the submenu C2 of in and output signals it is possible to regard the lining up signals to recognize as well as the programmed output and input functions on this clamp!



output and input function are represented. E.G. no output function is however the input function at the selected e.g. like here ZA0. clamp ZA0. "Protection circuit status". On the terminal is no a clamping.

| Connecto | Unit | Bit 0 to 7 | |
|----------|------|------------|--|
| r | | | |
| ZA | ZR | ZA0 to ZA7 | Legend: |
| ZB | ZR | ZB0 to ZB7 | |
| ZC | ZR | ZC0 to ZC7 | |
| ZD | ZR | ZD0 to ZD7 | " - " There are no clamping on the terminal |
| ZE | ZR | ZE0 to ZE7 | " * " There are + 24V clamping on the terminal |
| ZF | ZR | ZF0 to ZF7 | |
| FE | FKR | FE0 to FE7 | |
| FF | FKR | FF0 to FF7 | |
| IC | EIT | IC0 to IC7 | |
| ID | EIT | ID0 to ID7 | |
| IE | EIT | IE0 to IE7 | |



In the **submenu C3** the error memory is accommodated with C31. The error memory possesses a depth of 100 possible error registrations. The most current entry always stands on position unity and displaes the next to last entry on a deeper position. After return to the highest error position the possibility in the menu C30 exists to clear the error memory.

The error memory is put down in the Akku RAM of the clock component and is so secured against power failure.

If one selects a certain error then can be called up through pressures of the yellow button upward the following additional information for error situation:

| Line above | Floor conditions and driving direction | End-switch (Pre-end Up & down, concise up& Down, Zone 1 & Zone 2) |
|------------|---|--|
| Line down | Expenditure of the commands (Up,Down,Vi,Vn,V0,V1,V2,V3) | Expenditure of the contactor control (Up, Down, K5, K7) |

C4 Inspector session

In the **submenu C40 run time test** is possible it to limit all running times for the next trip on 1.0 sec.

In the **submenu C41 buffer trip** is possible to drive with the back getting control downward. (without obligation delay by the before-finalswitched 13B on the cab buffers) But only if the limit switch down by technical personal at the strip of passing pressed.

In the **submenu C42 seat sample** is possible to drive with the back getting control downward. (without obligation delay by the before-finalswitched 13B on the counterweight buffers) But only if the limit switch down by technical personal at the strip of passing pressed. The speed for this trip is to be positioned in the regulation.

In the **submenu C43 catch sample** is possible it the sort-circuit protection and the monitoring function V<0,2 m/s to deactivate.

In the submenu **C44 driving ability** will spend the speed of the car as well as the number of revolutions of drive.

In the **submenu C45 break test** the processor system DAVID-2005 is possible during switched resent control the short-circuit protection and the monitoring function V<0,2 m/s. to deactivate. Security the monitoring function becomes V>Vnenn activates which braked with exceeding of the nominal speed terminated.(both brake coils become without tension)

In the submenu **C46 remote trigger** of the processor system DAVID-2005 is possible switching on of the function remote release for the cab over the tracer the S50 on operates. After releas in tracer the S50 is again deactivated the function.

In the submenu **C47 Reset remote trigger** of the processor system DAVID-2005 is possible to put back by switching on of the function on with ramble remote releases for the cab with resetting coil over the tracer S50 for these.

In the submenu **C48 remote trigger Counterweight** of the processor system DVID-606 is possible by switching on of the function remote release for the counterweight over the tracer the S50 on to operation. After releasing tracer the S50 is again deactivated the function.

In the submenu **C49 reset remote trigger** of the proseccor system DAVID-2005 is possible it to put back by switching on of the function on with racable remote releases for the counterweight with resetting tracer the S50 is again deacivated the function.

In the **submenu C410** limit switch trip the processor system DAVID-2005 is possible above it o overdrive by switching on of the function on for the upper concise and drive in such a way on the upper limit swich.



OPERATING MANUAL DAVID-2005

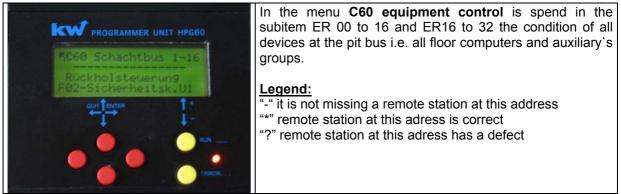
KW Aufzugstechnik GmbH The submenu C411 limit switch trip down the processor system David-2005 is possible it to overdrive by switching on of the function on for the lower concise and drive in such a way on the lower limit switch.

In submenu C412 switchgear cabinet temperature test of the processor system DAID-606. You can lower through contactors of the function the threshold value of the temperature monitoring in such a way that error registration takes place immediately.

C5 Compactness control

In the submenu C5 compactness control is spent the current position of the car in mm. If the car is located concisely in the stop additionally a second numerical value provided with a sign is spent. A minus means that the car is located in purchase to the measured position too low. A plus means that it stands too highly.

C6 Equipment control



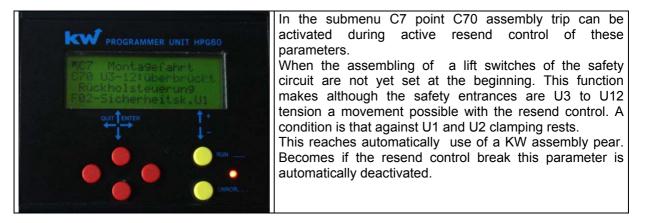
In addition the **pulse conditions** can be regarded during **digital shaft copying**. For normal counting it is necessary that the impulse conditions increase in the one direction and decrease in the other direction.

In addition finds the **revision number** of the individual operating system of blocks there.

For the programming of the ER-2007 remote station serves the parameter remote station adress program.

The remote station ER-2007 which can be programmed is connected with the RJ-45 cable with the central unit. All other floor computers may not be connected. Those program-bends at the ER-2007 must be set. By the choise of the floor number (01 to 32) ER-2007 gets its adress. Afterwards the ER-2007 is installed into the appropriate floor.

C7 Montagefahrt





Aufzugstechnik GmbH F01 Error messages - description Controller

| Code- | Error entry | Description |
|-------|--|---|
| No. | - | |
| F00 | Phase cabin light/Emergency power supply | The power line for the cabin light resp. the emergency power supply is missing. Either circuit breaker F5 is activated or L2 of the main power connection is missing. |
| F02 | Safety Circuit U1 Safety Circuit voltage | Safety Circuit power is missing. Either circuit breaker F7 is activated or L1 of the main power connection is missing. |
| F03 | Safety Circuit U2 – emergency stop | The emergency stop has been activated and thus the safety circuit was opened. |
| F04 | Safety Circuit U3 – shaft door – control strain weight | The shaft door has been opened or the contact of the control strain weight was activated, which opens the safety circuit. |
| F05 | Safety Circuit U4 – maintenance | The maintenance door has been opened or the contact of the |
| | door – rope loose | rope loose switch was activated, which opens the safety circuit. |
| F06 | Safety Circuit U5 – speed limiter | The contact of the speed limiter has been activated, which opens the safety circuit. |
| F07 | Safety Circuit U6 – emergency stop TOP - BUTTOM | The emergency stop switch Top or Bottom has been activated, which opens the safety circuit. |
| F08 | Safety Circuit U7 – buffer cabin | One of the buffer contacts has been activated and opened the |
| | -counterweight | safety circuit. |
| F09 | Safety Circuit U8 – catch cabin | The catch contact on the cabin has been activated, which opens the safety circuit. |
| F10 | Safety Circuit U9 – rope loose, | The contact of the rope loose contact cabin, the hatchway |
| | hatchway, emergency stop | contact or the emergency stop cabin has been activated and |
| | cabin | opened the safety circuit. |
| F11 | Safety Circuit U10 – shaft door | One of the shaft doors has been opened during travel, which opens the safety circuit. |
| F12 | Safety Circuit U11 – cabin door | One of the cabin doors has been opened during the travel, which opens the safety loop. |
| F13 | Safety Circuit U12 – locking | One locking device contact has opened during travel and |
| | device contact | opened the safety circuit. |
| F14 | Voltage central processor | The ZKR's +24V DC power supply is in overload conditions, resp. shorted in the system. |
| F16 | Voltage cabin processor | The FKR's +24V DC power supply is in overload conditions, resp. shorted in the system. |
| F18 | Carlight demage | The carlight in the cabin is out of order |
| F20 | Pre- end switch Top and Bottom | Both pre-end switches are activated. Either one of both |
| | activated - locking | switches is defect or one is mounted incorrectly. The installation is locked. |
| F21 | Pre-end switch Up fault | The top pre-end-switch S13A is not switching, although the |
| F22 | Pre-end switch Down fault | car has reached the top floor. The bottom pre-end-switch S13B is not switching, although the car has reached the lowest floor. |
| F23 | Pre-end switch Up and Down fault | The top pre-end-switch S13A and the bottom pre-end-switch S13B are not switching, although the car is driven to both end floors. |
| F24 | 2. Pre-end switch Up and Down aktive-Blockade | Both second pre-end switches are activated. Either one of both switches is defect or one is mounted incorrectly. The installation is locked. |
| F25 | 2. Pre-end switch Up and Down fault | The second top pre-end-switch S15A is not switching, although the car has reached the top floor. |
| F26 | 2.Pre-end switch Down fault | The second bottom pre-end-switch S15B is not switching, although the car has reached the lowest floor. |
| F27 | 2. Pre-end switch Down and Up fault | Der 2.Vorendschalter Oben S15A und Unten S15B schalten nicht, obwohl beide Endetagen angefahren wurden. |
| F36 | Releveling area | With the releveling the releveling area was left. |
| F37 | Releveling- timout | With the releveling the maximum releveling time wasexceeded. |
| F38 | Releveling Attemps | With the releveling the maximum number of attempts was |
| | Traiterening Attemps | |

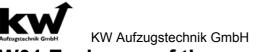


 KW Aufzugstechnik GmbH
 OPERATING MANUAL DAVID-2005

| F41 Regulation Fault The regulation (inverter) has a problem F44 Switchgear cabinet temperature The switchgear cabinet temperature became related to which crossedadjusted threshold. F45 Motor temperature The PTC of the engine has activated. Reaction according configuration. F46 Start Time Monitor The configured delay for the Start Time Monitor has elapsed. After a configured delay for the Journey Time Monitor has elapsed. Reaction according configuration. F48 Deceleration Time Monitor The configured delay for the Deceleration Time Monitor has elapsed. Reaction according configuration. F49 Stop Time Monitor The configured delay for the Stop Time Monitor has elapsed. Reaction according configuration. F50 Contactor monitor The monitor for the main and brake relay has been activated. Reaction according configuration. F51 Brake opening monitor The monitor for the main and brake relay has been activated. Reaction according configuration. F53 Contactor Stop The remointor for the main and brake relay has been activated. Reaction according configuration. F64 Brake & Block Monitor The door could not be closed within the configured time. F54 Contactor Travel The monitor for the main and brake relay has been activated. Reaction according configuration. | | | OI LIVATING MANOAL DAVID-2003 |
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| F44 Switchgear cabinet temperature crossedadjusted threshold. F45 Motor temperature configuration. The PTC of the engine has activated. Reaction according configuration. F46 Start Time Monitor The configured delay for the Start Time Monitor has elapsed. After a configured delay for the Journey Time Monitor has elapsed. Reaction according configuration. F47 Journey Time Monitor The configured delay for the Journey Time Monitor has elapsed. Reaction according configuration. F48 Deceleration Time Monitor The configured delay for the Stop Time Monitor has elapsed. Reaction according configuration. F49 Stop Time Monitor The monitor for the main and brake relay has been activated. Reaction according configuration. F50 Contactor monitor The hark exitation monitor has been activated. Reaction according configuration. F53 Contactor Travel The relay has been activated. Reaction according configuration. F54 Contactor Travel The relay has been activated. F61 Door Monitor – Door opening The door could not be cosed within the configured time. F62 Door Monitor – Door opening The door could not be cosed within the configured time. F63 Frace fanding call up wedges Tracer landing call we wedges F64< | F 4 4 | De male tie a Frank | exceeded. |
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| F45 Motor temperature The PTC of the engine has activated. Reaction according configuration. F46 Start Time Monitor The configured delay for the Start Time Monitor has elapsed. After a configured number of trials, the installation is locked. F47 Journey Time Monitor The configured delay for the Journey Time Monitor has elapsed. Reaction according configuration. F48 Deceleration Time Monitor The configured delay for the Deceleration Time Monitor has elapsed. Reaction according configuration. F50 Contactor monitor The monitor for the main and brake relay has been activated. Reaction according configuration. F51 Brake shoe monitor The monitor for the main and brake relay has been activated. Reaction according configuration. F52 Brake shoe monitor The monitor for the main and brake relay has been activated. Reaction according configuration. F54 Contactor Travel The monitor for the main and brake relay has been activated. Reaction according configuration. F54 Door Monitor - Door Closing The door could not be closed within the configured time. F64 Door Monitor - Door opening The door could not be closed within the configured time. F65 Tracer landing call up wedges Tracer landing call up wedges F764 Tracer door open wodges | F44 | Switchgear cabinet temperature | a |
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| F82Communication I/O ITR 1Communication to the car calling controller 1 is disturbed. Is the hanging cable correctly put or for veins damaged?F82ACommunication I/O ITR 2Communication to the car calling controller 2 is disturbed. Is the hanging cable put or for veins damages?F83DSK Pulses exchangeThe encoder pulses of the shaft encoder must be exchanged. (Input 81 and 82)F84DSK No pulsesFrom the pulse generator of the digital pit copying no impuses come. Are the giver and impuls entry correct? | E04 | Communication 1/0 51/D | |
| F82Communication I/O ITR 1Communication to the car calling controller 1 is disturbed. Is the hanging cable correctly put or for veins damaged?F82ACommunication I/O ITR 2Communication to the car calling controller 2 is disturbed. Is the hanging cable put or for veins damages?F83DSK Pulses exchangeThe encoder pulses of the shaft encoder must be exchanged. (Input 81 and 82)F84DSK No pulsesFrom the pulse generator of the digital pit copying no impuses come. Are the giver and impuls entry correct? | F01 | Communication I/O FKR | |
| the hanging cable correctly put or for veins damaged? F82A Communication I/O ITR 2 Communication to the car calling controller 2 is disturbed. Is the hanging cable put or for veins damages? F83 DSK Pulses exchange The encoder pulses of the shaft encoder must be exchanged. (Input 81 and 82) F84 DSK No pulses From the pulse generator of the digital pit copying no impuses come. Are the giver and impuls entry correct? | E92 | Communication I/O ITP 4 | |
| F82ACommunication I/O ITR 2Communication to the car calling controller 2 is disturbed. Is the hanging cable put or for veins damages?F83DSK Pulses exchangeThe encoder pulses of the shaft encoder must be exchanged. (Input 81 and 82)F84DSK No pulsesFrom the pulse generator of the digital pit copying no impuses come. Are the giver and impuls entry correct? | r02 | | |
| F83 DSK Pulses exchange The encoder pulses of the shaft encoder must be exchanged. (Input 81 and 82) F84 DSK No pulses From the pulse generator of the digital pit copying no impuses come. Are the giver and impuls entry correct? | E824 | Communication I/O ITP 2 | |
| F83DSK Pulses exchangeThe encoder pulses of the shaft encoder must be exchanged. (Input 81 and 82)F84DSK No pulsesFrom the pulse generator of the digital pit copying no impuses come. Are the giver and impuls entry correct? | года | | |
| F84 DSK No pulses From the pulse generator of the digital pit copying no impuses come. Are the giver and impuls entry correct? | E83 | DSK Bulsos oxobango | |
| F84DSK No pulsesFrom the pulse generator of the digital pit copying no impuses come. Are the giver and impuls entry correct? | гој | Don Fuises exchange | |
| come. Are the giver and impuls entry correct? | E04 | DSK No pulses | |
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| | L02 | DSK Floor number | The noor number determined by the learning the does not |

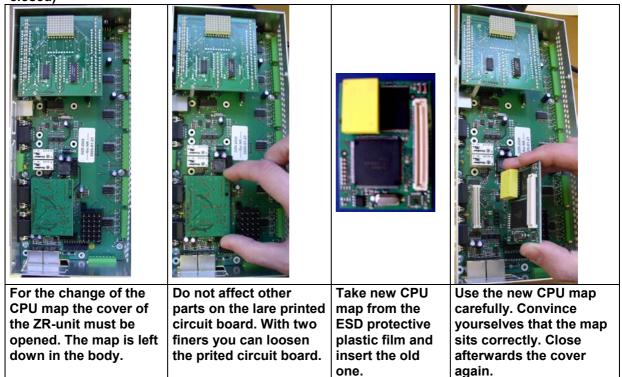


| Aufzugstechnik Gr | KW Aufzugstechnik GmbH | OPERATING MANUAL DAVID-2005 |
|-------------------|-----------------------------|---|
| | × | agree with the registered. Examine please enty in the software |
| | | and zone switch fpr switching gap and function. |
| F86 | DSK Korrektur ZONE | Correction trip released by counter deviation the zone. |
| F87 | DSK Correction pre-end down | Correction trip released by counter deviation |
| | | Pre-end-switch down |
| 88 | Correction – Pre.Switch Top | There is a difference between the counter of the digital shaft- |
| | | copy and the position of the Pre-switch top. The counter was |
| | | corrigate. |
| 90 | Watchdog-Reset | Internal reset – damage in the hardware |
| 91 | Gruppenbus Reset | Interner Reset durch Fehler auf dem Gruppenbus |
| 92 | Protection circuit | The protection circuit has itself closed. A cause a missing or |
| | | retarded zone. |
| F93 | Elevator bus communication | On the elevator bus (communication regulation STG) an error |
| | | arose. |
| F94 | Safery light lattice | An error was announced of the safety light lattice which was |
| | | determined with the self check. |
| F101 | Overcurrent- IPM | Frequency inverter message- Overcurrent in the power |
| | | semiconductor. |
| F102 | Overcurrent- U | Frequency inverter message- Overcurrent in the engine phase |
| | | |
| F103 | Overcurrent - V | Frequency inverter message- Overcurrent in the engine phase |
| F404 | | V |
| F104 | Overcurrent- W | Frequency inverter message- Overcurrent in the engine phase W |
| F105 | Padiatar bay temperatura | Frequency inverter message- The radiator box temperature is |
| F 105 | Radiator box temperature | too high. |
| F106 | ZK- Overvoltage | Frequency inverter message- The intermediate circuit tension |
| 1 100 | Zite Overvoltage | is too high. |
| F107 | ZK- Untervoltage | Frequency inverter message- The intermediate circuit tension |
| | | is too low. |
| F108 | Driving contactor Start | Frequency inverter message- The driving drop when starting. |
| F109 | Driving Contactor Drive | Frequency inverter message- The driving contactors drop |
| | | while driving. |
| F110 | Release miss | Frequency inverter message- The release is missing i.e. it |
| | | does not lie close a driving direction. |
| F111 | Release Up=Down | Frequency inverter message- The driving directions on and off |
| | | both. |
| F112 | Direction fault | Frequency inverter message- The driving direction is wrongly |
| | | in relationship with the encoder channels-A & B exchange |
| F113 | Difference commando values | Frequency inverter message- The rule difference is too high- |
| | | is the adjusted impulse number correct, does open the brake |
| | | duly? |
| F114 | No encoder pulses | Frequency inverter message- The encoder pulses come- is |
| | | pulse generator-attached does tune the adjusted impulse |
| | | number does open the brake duly? |
| F115 | ZK- Precharing | Frequency inverter message- Ground fault- is the braking |
| | | resistance duly attached? |
| F116 | Release Up = Down | Frequency inverter message- Error with the direction of travel |
| | | choice |



W01 Exchange of the processor map

Before you walk for the change of the CPU map, please break all safety device and switches. Turn the car off in the lowest level concisely during activated resend control.(car doors closed)



6.0 Information

D1 Zustandsmeldungen

Das **Untermenü D1** ist noch nicht realisiert.

D2 Fahrtenzähler

Im Untermenü D2 ist der Fahrtenzähler realisiert. Es stehen zwei Fahrtenzähler zur Verfügung:

| Total trip counter | Not erasable |
|-----------------------------------|--|
| Total trip counter | Erasable for the statistics evaluation |
| Total trip counter Up | Erasable for the statistics evaluation |
| Total trip counter Down | Erasable for the statistics evaluation |
| Floor trip counter for each floor | Erasable for the statistics evaluation |

D3 Run time counter

In the submenu D3 the hour meter is realized. Two hour meters are available:

| Net hour meter | Time counting since creation of the tension; not erasable | |
|--|---|--|
| Hour meter | Time counting of the trips, not erasable | |
| Hour meter | erasable for the statistics evaluation | |
| The last point of personator in this many is requirement for react of the hour motor | | |

The last point of parameter in this menu is requirement for reset of the hour meter.

D4 Door motion counter

In the submenu D4 the door transaction counter is realized. Two door transaction counters are available for 2 door sides:

| Indicate the door movements door 1 | Activity count, erasable |
|------------------------------------|--|
| Indicate the door movements door 2 | Activity count, erasable |
| Delete door transaction counters | Erasable, for the statisics evaluation |
| Indicate door maintenance | Adjust the number of the door movements, starting from one |
| | Message takes place. Range of adjustment from 100 to |
| | 100.000 |



7.0 Start-up of the lift

I00 Assembly trip

In the submenu C7 assembly trip can be activated during active back getting control of these parameters. At the beginning at the assembling of a lift the switches of the safety circuit are not yet set. This function makes although the safety entrances are U3 to U12 without tension, a movement possible with the back getting control. A condition is that against U1 and U2 tension rests. Becomes if the back getting control break this parameter is automatically deactivated.

101-Commissioning with digital relative/motor copying w. incremental encoder

1.0 General

The fundamental operational sequence of the start-up of digital copying runs off in the following stepps:

- O Examination of the software attitudes and input of the raking distance of the lower pre-end switch.
- O Examination of the electrical installations and attitude of the pre-end switch.
- O Execution of the leaning trip.
- O Choice of the driving speeds by adjusting the braking distances
- O Fairs of the level is not ok and correction of the concise values.
- O Optionally: Attitude of the releveling.

2.0 Examination oft the electrical installations and attitude of the pre-end-switch

- All contact switches in the safety circuit should be attached.
- The incremental giver should be functionally installed. You can install the incremental giver at the car or at the speed limiter. The entrances are at the central unit as also at the car controller available. The linesare to be presented as follows:

| Incremental encoder | Controller | Description |
|------------------------------------|--------------|-----------------|
| U _B or U _{Ver} | Terminal 200 | Voltage +24V DC |
| GND or OV | Terminal 500 | GND 0V |
| Channel A | Terminal 83 | Pulse-Spur A |
| Channel B | Terminal 84 | Pulse-Spur B |

- The zone switches S71 and S72 (for EoT & Releveling) and /or S 71 should be functionally installed. The length of the zone should be symmetrical to the concise line maximally 250 mm into both directions to extend. The more accurately the concise line is met the smaller fails later the concise correction.
- The pre-emd-switch 13A and 13B is to be adjusted on the that braking distance of the learning trip maximally which can be expected. The function of the pre-end-switcher should be examined with the inspection trip. As approximate reference point one can take the values specified down which can naturally differ by the adjusted delay values.

| Maximum driving speed | | |
|-----------------------|--|--|
| 0,50 m/s | | |
| 0,63 m/s | | |
| 1,00 m/s | | |
| 1,20 m/s | | |
| 1,60 m/s | | |
| 2,00 m/s | | |
| | | |

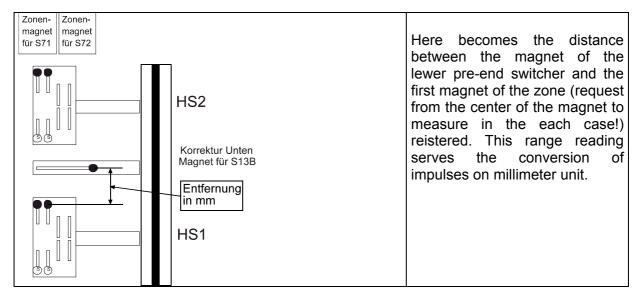
The bringing in way may be longer than in normal operation, since the Pre-end-switch is bridged there and the brake point by digital copying is spent. The pre-end switcher is not however synchronization points for the control and may after learning trip any more not be changed. The pre-end switcher down 13B must lie however between the 1^{st} and 2^{nd} stop.

Equivalent one is to be placed the pre-end switcher above 13A between the next to last and last floor. This rule is to be kept also with short trip stop!

3.0 Examination of the attitudes and the braking distance of the lower Pre-end-switch



Before with the learning trip begins you should examine the data in the plant parameters (Stpp number, kind of copying,...). In addition you should again examine your regulation whether the adjusted delay values meet your braking distances. In the menu B42-relative copying you stop please the following parameter " distance pre-end zone flag down" the numerial value exactly.



4.0 Execution of the leaning trip

A) As the first you position the learning speed in the menu learning trip. You can choose between three speeds of V1, V2 and V3. Remember that each driving motor for a trip with slow speed is not suitable over the complete hoisting depth. If the lift exhibits short trip stops, one should with V1 the learning trip would drive throuh.

B) Please position the car above the lower pre-end witcher with the inspection or back getting control. You scolded afterwards in the control panel the external control out. After a switching to normal operation you activate please the learning trip in the menu **learning trip activate-> Yes.**



The learning trip runs off in three phases:

1. Phase: The elevator drives now downward with slow Speed-V0 to the lower pre-end switch and brings in into the door zone of the lowest stop. With reaching the zone the elevator is electrically stopped. At the same time the necessary way for the final delay V0->0 is measured. If the counting direction of the incremental giver for the shaft copying polarized the error message appears "F83-DSK- Impulse echanges". Please in this case the two impulse trades A+B of the incremental giver exchange and measuring trip again with point B) start!

2. Phase: Afterwards the car drives upward and takes up all zone positions and the position of the pre-end switch Up.

3. Phase: Subsequently the car drives downward and takes up all zone positions. If deviations should be recognized with reading the switch positions in (oo many or too few zones) during the learning trip the errow message appears "F85-DSK floor number". In this case the zone magnets as well as their position are to be examined, if necessary with inspection speed a switching of the solenoids on and off examine (solenoids may do when over driving the magnet only 1 x scolded). Start B) the measuring trip again afterwards with point. After successful learning trip appears terminated in the display of the HPG60 " learning trip". The concise position are disributed on the center of the repsective zone ranges. The delay ways V3, V2, V1 are reserved automatically with the registered distances in the menu B42. The delay V0->0 likewise reserved with a learning value. In the chess table you find all determined concise values. All values are put down in millimeters and ascending order, i.e. the stop 1 has the lowest value and the highest stop has the lowest value. A learning trip must be compellingly implemented, if the door zones or the pre-end switcher in its position were changed!

If a new learning trip is implemented then its result is only taken over after a successful 3. Phase. If the learning trip was broken off, then the elevator for normal operation is closed and in the 4 diplay zone appears invalid the message "learning trip".

5.0 Choice of the driving speeds by adjusting the braking distances

If you want to use only the speed of V3 at your lift, then you can give a pair of car calls now in order to examine the approach mode the plant. If you want to drive in addition with the V1 and/ or V2, or even short trip stops to have must enter you the delay ways for V1 and/or V2.

Please consider during the input:

braking distance V1 < Braking distance V2 < Braking Distance V3

With the choice of the braking distance you also specify, with which speed the elevator control starts the stops. If a delay way for a speed was set to the value zero then this speed is not more used also by the control. E.g. the floor distance of two floor is smaller than the entered value "B43 delay in V3" during this trip the speed of V2 is selected automatically.(e.g. floor trip with fasst plants). The floor distance is smaller than the entered value "B43 delay in V2" during this trip the speed of V1 is selected automatically.(e.g. smaller than the entered value "B43 delay in V2" during this trip the speed of V1 is selected automatically.(e.g. smaller than the entered value "B42 delay in V1" during this trip the speed of V0 is selected automatically.(extreme short trip stop, few cm) **The parameters delay V0-> 0 and delay V3 must always exhibit a value.**

6.0 Fairs of the level is not ok and correction of te concise values.

The control was now examined i.e. the car not overdrive the stops and drive in the cab is possible. Connect yours HPG60 with the car calling in the car. From there out comfortably the "level is not ok" can measured and directly into the system will enter. Go with the car into the first stop and select yourselves you the parameter concise value level 1. Retaining inaccuracies be stopped by operation of the yellow Plus or Minus-Buttons.

If your car stands too highly then you register the millimeter value which your car stands too highly by manipulation of the Minus-Button.

If your car stands too low then by manipulation of the plus button the millimeter value is registered which your car stands too low.

The determined concise value is corected automatically.

Repeat the procedure for the other stops.

7.0 Attitude of the releveling

Before you activate the releveling you must meet following parameter attitude in the menu **B17**-releveling:

1) In the parameter you stop max. retriving the length of the retrieving way. The retrieving way should be ever shorter than the half zone range. Consider please the following circumstances: The zone range must as adjusted that it is shorter as the door sword length.

2) In the parameter you stop tolerance retrieving starting point for the beginning of retrieving. As default value you should go unter 5-10 mm since otherwise existing rope oscillations lead to unnecessary releveling procedures. If the inputs described above were transacted the parameter **releveling** can be activated.



102-Commissioning with digital Absolute copying with pre-end & zone-switch

1.0 General

The fundamental operational sequence of the start-up of absolute copying with pre-end & zone switch runs off in the following steps: Examination of the electrical installations and attitude of the pre-end switch.

- O Examination of the software attitudes and input of the raking distance of the lower pre-end switch.
- O Examination of the electrical installations and attitude of the pre-end switch.
- O Execution of the leaning trip.
- O Choice of the driving speeds by adjusting the braking distances
- O Fairs of the level is not ok and correction of the concise values.
- O Optionally: Attitude of the releveling.

2.0 Examination of the electrical installations and attitude of the pre-end switcher

- All contact switches in the safery circuit should be attached.
- The absolute value device system should be functionally installed. This can be on the car or at the switchboard. The entrances are represented in the connection diagram.

| Absolute-Value Encoder | Controller | Description |
|------------------------------------|--------------|------------------------|
| Shield | Terminal PE | Shielded earth |
| SSI Clock A | Terminal 81 | Clock of Channel A (+) |
| SSI Clock B | Terminal 82 | Clock of Channel B (-) |
| GND or OV | Terminal 500 | GND 0V |
| U _B or U _{Ver} | Terminal 200 | Voltage +24V DC |
| SSI Data A | Terminal 83 | Data of Channel A (+) |
| SSI Data B | Terminal 84 | Data of Channel B (-) |

- The zone switches S71 and S72 (for EoT & releveling) and /or S71 should be functionally. The length of the zone should be symmetrical to the concise line maximally 250 mm into both directions to extend. The more accurately the concise line is met the smaller fails later the concise correction.
- The pre-end switcher 13A and 13B is to be set to that braking distance of the learning trip maximally which can be expected. The function of the pre-end switcher should be examined with the inspection trip. As approximate value one can take the value specified down, which can naturally differ by the adjusted delay values.

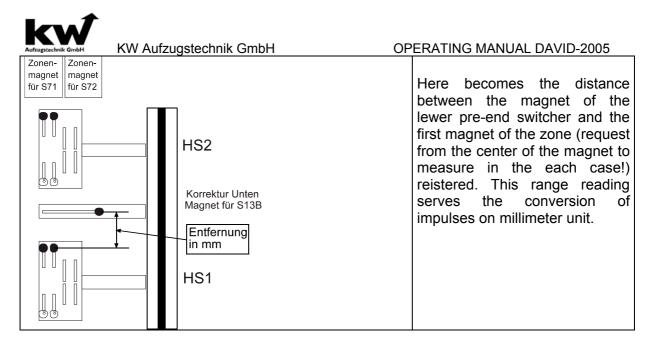
| Approximate braking distance with 0,8 m/s ² delay | Maximum driving speed |
|--|-----------------------|
| 1000 mm | 0,63 m/s |
| 1200 mm | 1,00 m/s |
| 1800 mm | 1,20 m/s |
| 2300 mm | 1,60 m/s |
| 3000 mm | 2,00 m/s |

The bringing in way may be longer than in normal operation, since the pre-end switch is bridged there and the brake point by digital copying is spent. The pre-end-switch is not however synchronization points for the control and may after learning trip any more not be changed. The pre-end switcher down 13B must lie however between the 1st and 2nd stop.

Equivalent one is to be placed the pre-end-switch above 13A between the next to last and last floor. This rule is to be kept also with short trip stop!

4.0 Examination of the attitudes and the braking distance of the lower pre-end-switch

Before with the learning trip begins you should examine the data in the plant parameters (Stop number, kind of copying,...). In addition you should again examine your regulation whether the adjusted delay values meet your braking distances. In the menu B42-relative copying you stop please the following parameter " distance pre-end zone flag down" the numerial value exactly.



4.0 Execution of the leaning trip

- a. As the first you position the learning speed in the menu learning trip . You can choose between three speeds of V1, V2 and V3. Remember that each driving motor for a trip with slow speed is not suitable over the complete hoisting depth. If the lift exhibits short trip stops, one should with V1 the learning trip would drive throuh.
- b. Please position the car above the lower pre-end switcher with the inspection or back getting control. You scolded afterwards in the control panel the external control out. After a switching to normal operation you activate please the learning trip in the menu **learning trip activate-> Yes.**

The learning trip runs off in three phases:

1. Phase: The elevator drives now downward with slow Speed-V0 to the lower pre-end switch and brings in into the door zone of the lowest stop. With reaching the zone the elevator is electrically stopped. At the same time the necessary way for the final delay V0->0 is measured. If the counting direction of the incremental giver for the shaft copying polarized the error message appears "F83-DSK- Impulse echanges". Please in this case the two impulse trades A+B of the incremental giver exchange and measuring trip again with point B) start!

2. Phase: Afterwards the car drives upward and takes up all zone positions and the position of the pre-end switch Up.

3. Phase: Subsequently the car drives downward and takes up all zone positions. If deviations should be recognized with reading the switch positions in (oo many or too few zones) during the learning trip the errow message appears "F85-DSK floor number". In this case the zone magnets as well as their position are to be examined, if necessary with inspection speed a switching of the solenoids on and off examine (solenoids may do when over driving the magnet only 1 x scolded). Start B) the measuring trip again afterwards with point. After successful learning trip appears terminated in the display of the HPG60 " learning trip". The concise position are disributed on the center of the respective zone ranges. The delay ways V3, V2, V1 are reserved automatically with the registered distances in the menu B42. The delay V0->0 likewise reserved with a learning value. In the chess table you find all determined concise values. All values are put down in millimeters and ascending order, i.e. the stop 1 has the lowest value and the highest stop has the lowest value. A learning trip must be compellingly implemented, if the door zones or the pre-end-switcher in its position were changed!

If a new learning trip is implemented then its result is only taken over after a successful 3. Phase. If the learning trip was broken off, then the elevator for normal operation is closed and in the 4 diplay zone appears invalid the message "learning trip".



5.0 Choice of the driving speeds by adjusting the braking distances

If you want to use only the speed of V3 at your lift, then you can give a pair of car calls now in order to examine the approach mode the plant. If you want to drive in addition with the V1 and/ or V2, or even short trip stops to have must enter you the delay ways for V1 and/or V2.

Please consider during the input:

braking distance V1 < Braking distance V2 < Braking Distance V3

With the choice of the braking distance you also specify, with which speed the elevator control starts the stops. If a delay way for a speed was set to the value zero then this speed is not more used by the control. E.g. the floor distance of two floor is smaller than the entered value " B43 delay in V3" during this trip the speed of V2 is selected automatically.(e.g. floor trip with fast plants). The floor distance is smaller than the entered value " B43 delay in V2" during this trip the speed of V1 is selected automatically.(e.g. short trip stop) The foor distance is smaller than the entered value " B42 delay in V1" during this trip the speed of V0 is selected automatically.(extreme short trip stop, few cm) **The parameters delay V0-> 0 and delay V3 must always exhibit a value.**

6.0 Measurement of the level is not ok and correction of the concise values.

The control was now examined i.e. the car not overdrive the stops and drive in the cab is possible. Connect yours HPG60 with the car calling in the car. From there out comfortably the "level is not ok" can measured and directly into the system will enter. Go with the car into the first stop and select yourselves you the parameter concise value level 1. Retaining inaccuracies be stopped by operation of the yellow Plus or Minus-Buttons.

If your car stands too highly then you register the millimeter value which your car stands too highly by manipulation of the Minus-Button.

If your car stands too low then by manipulation of the plus button the millimeter value is registered which your car stands too low.

The determined concise value is corected automatically.

Repeat the procedure for the other stops.

7.0 Attitude of the releveling

Before you activate the releveling you must meet following parameter attitude in the menu **B17**-releveling:

1) In the parameter you stop max. retriving the length of the retrieving way. The retrieving way should be ever shorter than he half zone range. Consider please the following circumstances: The zone range must be adjusted that it is shorter as the door sword length.

2) In the parameter you stop tolerance retrieving starting point for the beginning of retrieving. As default value you should go unter 5-10 mm since otherwise existing rope oscillations lead to unnecessary releveling procedures. If the inputs described above were transacted the parameter **releveling** can be activated.

103-Commissioning with digital absolute copying without shaft switches

1.0 Examination the electrical installations and attitude of the pre-end switch

All switches in the safety circuit should be attached. The absolute value device system should be functionally installed. This can be on the car or at the switchboard. The entrances are presented in the connection diagram.

| Absolute-Value Encoder | Car Controller FKR | Description |
|------------------------------------|--------------------|------------------------|
| Shield | Terminal PE | Shielded earth |
| SSI Clock A | Terminal 81 | Clock of Channel A (+) |
| SSI Clock B | Terminal 82 | Clock of Channel B (-) |
| GND or OV | Terminal 500 | GND 0V |
| U _B or U _{Ver} | Terminal 200 | Voltage +24V DC |
| SSI Data A | Terminal 83 | Data of Channel A (+) |
| SSI Data B | Terminal 84 | Data of Channel B (-) |

2.0 Allocation of the compactness

You scolded "consice input" in the menu on the attitude floor height. Now you can be registered for each floor the value in the millimeter (e.g. HS01-0000mm, HS02-3000mm.). After all floors were reserved you scolded back on the attitude concise correction.

3.0 Execution of the determination of the " counter direction"



OPERATING MANUAL DAVID-2005

The control does not know yet the counting direction of the ABS-absolute-value-encoder. The factory setting value of the parameter counter direction is "negative". Set from there the value to "**lerning: Drive Downward**" and proceed the car with the manual control (releveling control or inspection control) a small piece more deeply until the control terminates the trip. The control learned the counting direction now.

4.0 Execution of the synchronisation in the lowest stop

Now the ABS-absolute-value-encoder with the control must be synchronize, that mean the controller has to allocate the announced impulse conditions of the abs giver of the individual floors. In addition you drive the car with the manual control (releveling control or inspection control) into the lowest floor concisely and activate the menu option synchronizing HS01.

5.0 Choice of the driving speeds by adjusting the braking distances

If you want to use only the speed of V3 at your lift, then you can give a pair of car calls now in order to examine the approach mode the plant. If you want to drive in addition with the V1 and/ or V2, or even short trip stops to have must enter you the delay ways for V1 and/or V2.

Please consider during the input:

braking distance V1 < Braking distance V2 < Braking Distance V3

With the choice of the braking distance you also specify, with which speed the elevator control starts the stops. If a delay way for a speed was set to the value zero then this speed is not more used by the control. E.g. the floor distance of two floor is smaller than the entered value " B43 delay in V3" during this trip the speed of V2 is selected automatically.(e.g. floor trip with fast plants). The floor distance is smaller than the entered value " B43 delay in V2" during this trip the speed of V1 is selected automatically.(e.g. short trip stop) The foor distance is smaller than the entered value " B42 delay in V1" during this trip the speed of V0 is selected automatically.(extreme short trip stop, few cm) **The parameters delay V0-> 0 and delay V3 must always exhibit a value.**

| Braking distance at 0,8 m/s ² Deceleration | Maximum Speed |
|---|---------------|
| 1000 mm | 0,63 m/s |
| 1200 mm | 1,00 m/s |
| 1800 mm | 1,25 m/s |
| 2300 mm | 1,60 m/s |
| 3000 mm | 2,00 m/s |

6.0 Measurement of the level is not ok and correction of the concise values.

The control was now examined i.e. the car not overdrive the stops and drive in the cab is possible. Connect your HPG60 with the car calling in the car. From there out comfortably the "level is not ok" can measured and directly into the system will enter. Go with the car into the first stop and select yourselves you the parameter concise value level 1. Retaining inaccuracies be stopped by operation of the yellow plus or Minus-Buttons.

If your car stands too highly then you register the millimeter value which your car stands too highly by manipulation of t he Minus-Button.

If your car stands too low then by manipulation of the plus button the millimeter value is registered which your car stands too low.

The determined concise value is corected automatically.

Repeat the procedure for the other stops.

7.0 Attitude of the releveling

Before you activate the releveling you must meet following parameter attitude in the menu **B17**-releveling:

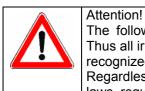
1) In the parameter you stop max. retriving the length of the retrieving way. The retrieving way should be ever shorter than he half zone range. Consider please the following circumstances: The zone range must be as adjusted that it is sorter as the door sword length.

2) In the parameter you stop tolerance retrieving starting point for the beginning of retrieving. As default value you should go unter 5-10 mm since otherwise existing rope oscillations lead to unnecessary releveling procedures. If the inputs described above were transacted the parameter **releveling** can be activated.



4.1 BRAKE-TEST – CONTROL THE DECELERATION IN EVERY BRAKE COIL

In the **submenu C45 break test** the processor system DAVID-2005 is possible during switched resent control the short-circuit protection and the monitoring function V<0,2 m/s to deactivate. Security the monitoring function becomes V>Vnenn activates which bracked with exceeding of the nominal speed terminated(both brake coils become without tension).



The following activities may be accomplished only by authorized technical personal. Thus all irregulaties and disturbances can when assembling and with operated a lift to be recognized and repaired. Regardless of the safety regulation specified in this guidance in the user country valid laws regulations are to keep guidelines and standarts.

1) The car must be at least two floors below the highest stop.

2) Please pay attention of the empty car. You scolded the resend control S61 and drive the cab outside of the door zone. The doors remain closed.

3) Adjust the menu C-Diagnosis/Inspector-session, C45 brake test. By this parameter that becomes short contactor power down in the frequency inverter of the series Goliath-60. The monitoring function is waived (those the brake opening at a speed of more largely 0,2 m/s prevented).

4) Give an car call with the HPG-60 or press at the central unit the calling button for the lowest stop place.

5) After the car has started moving you must activate the break-test key button S82 by a rotation to the right. Press the brake opening racer S 82A. Now the brake is opened permanently.

6) Operate now the brake opening tracer S81A. The security circle interrupted the brake coil A is still under tension and remains open, but the brake coil B drops.

7) The brake coil B which can be examined closes, rake coil A is still unter tension. The minimum delay value for a brake circuit amounts to 0.4 m/s2, and/or the maximum stopping distance with

Vnenn= 1.0 m/s amounts to 1,8 m and/or with Vnenn= 1. m/s of 3,5m!

8) Test procedure for the second brake circuit repeat!

9) After successful braking code switch S82 braked switches off and keys off takes.

10) Drive with the back getting control the cab concisely and back getting control S61 switch off. The

doors open and the plant are in the normal operation mode.

4.2 Test of the watchingdog timing

In the submenu C40 run time test of the processor system DAVID-2005 is possible it to limit all running times for the next trip on 1,0 seconds.

| 1 | The car is in a stop concisely place |
|---|--|
| 2 | Adjust the menu C-Diagnosis/ Inspection-session, C40 run time test in the processor DAVID-2005. All |
| | running times are set on one second |
| 3 | Call input by lowest/ highest call at the top side of the DAVID-2005 central processing unit in the menu C- |
| | Diagnosis /C- Call input |
| 4 | The plant opposes with run time error when going away from the stop |
| 5 | Unblocking the plant by In-/ Offswitching the switch S33 or releasing of the reset in the menu C-Diagnosis / |
| | C0-Reset |
| 6 | The system is again in normal energian |

6 The system is again in normal operation

4.3 Execution of the buffer trip

In the **submenu C41 buffer trip** is to be driven it possible with the back getting control downward. (without obligation delay by the before-finalswitched 13B on the cab buffers) But only if the limit switch down by technical personal at the strip of passing pressed.



| 1 | The back getting control S61 switch on |
|---|---|
| 2 | Adjust the menu C-Diagnosis/ Inspection-session, C41 buffer trip in the processor DAVID-2005. the pre-end |
| | switch Down S13B is not considered. |
| 3 | Switch over hand terminal (HPG-60) into the parameters of the frequency changer (Goliath-60). Increace |
| | the parameter "speed Vi" in the menu " desired value" to the desigred worth. |
| 4 | The protection F7 switch off and emergency limit switch down bridge. Protection F7 restart. |
| 5 | The car drive with the releveling control upwards on the buffer. |
| 6 | After examination the car drive upward from the buffer. Bridge from the safety circuit remove and the speed |
| | back of Vi put to the the regular value . |
| 7 | The releveling control S61 switch off. The control returns to normal operation. |

4.4 Execution of the seat sample

In the **submenu C42 seat sample** is to be driven it possible with the back getting control downward. (without obligation delay by the before-final-switched 13B on the counterweight buffers) But only if the limit switch down by technical personal at the strip of passing pressed. The speed for this trip is to be positioned in the regulation.

| 1 | The back getting control S61 switch on |
|---|---|
| 2 | Adjust the menu C-Diagnosis/ Inspection-session, C41 seat sample in the processor DAVID-2005. the pre- |
| | end switch Up S13A is not considered. |
| 3 | Switch over hand terminal (HPG-60) into the parameters of the frequency changer (Goliath-60). Increace |
| | the parameter "speed Vi" in the menu " desired value" to the desigred worth. |
| 4 | The protection F7 switch off and emergency limit switch down bridge. Protection F7 restart. |
| 5 | The car drive with the releveling control upwards on the buffer. |
| 6 | After examination the car drive upward from the buffer. Bridge from the safety circuit remove and the speed |
| | back of Vi put to the the regular value . |
| 7 | The releveling control S61 switch off. The control returns to normal operation. |

4.5 Driving abillity with fixed counterbalance

| 1 | The car is in a highest stop concisely place |
|---|--|
| 2 | The back getting control S61 switch on |
| 3 | Adjust the menu C-Diagnosis/ Inspection-session, C44 speed in the processor DAVID-2005. In this menu |
| | are spend the speed of the car and the number of revolutions of the drive. |
| 4 | The car move upward with the releeling control. If the car comes to short time to a halt, evidently at the |
| | speed of 0 m/s but the number of revolutions of the drive larger 0 rpm is waived the driving ability and the |
| | examination successfully terminates. If the speed does not drop to 0 m/s the driving ability is too high. |
| 5 | The car with the releeling control upwards from the upper emergency limit awitch move. |
| 6 | The releveling control S61 switch off. The control returns to normal operation. |

4.6 Execution of the catch sample of the elevator car

In order to implement the catch sample with the elevator car the car must arrive into the overspeed. This is only possible if that short-circuit protection and the monitoring function V<0,2 m/s deactivated.

| | \mathbf{J} |
|---|--|
| 1 | The car in the center and/or in the upper half of the pit concisely place. |
| 2 | Invite the test weights into the elevator car. |
| 3 | The releveling control S61 switch on. |
| 4 | Adjust the menu C-Diagnosis/ Inspector-session, C43 catch sample in the processor system DAVID-2005. |
| | By this parameter that becomes short-circuit protection in frequenz inverter of the series Goliath-60. The |
| | monitoring function is waived which prevents the brake opening at a speed of more largely 0,2 m/s. |
| 5 | The emergency freeing switch S80 activate and the brake opening key S81 press unto the car has |
| | imprisoned. |
| 6 | Switch over the hand terminal the HPG-60 into the parameter frequence inverter Goliath-60. In the menu |
| | drive out /stop the parameter catch freeing activate. Thus for short time the current is increased on 2.0 |
| | subject of the rated current. |
| 7 | The car with the releveling control in upward direction from the catch pull. |
| 8 | The back getting control S61 switch off. The control returns to normal operation. |

4.7 Activation/ Reset of the remote releases car/ Counterweight

In the submenu **C46 remote trigger** of the processor system DAVID-2005 is possible switching on of the function remote release for the cab over the tracer the S50 on operates. After releas in tracer the S50 is again deactivated the function.



OPERATING MANUAL DAVID-2005

In the submenu **C47 Reset remote trigger** of the processor system DAVID-2005 is possible to put back by switching on of the function on with ramble remote releases for the cab with resetting coil over the tracer S50 for these.

In the submenu **C48 remote trigger Counterweight** of the processor system DVID-606 is possible by switching on of the function remote release for the counterweight over the tracer the S50 on to operation. After releasing tracer the S50 is again deactivated the function.

In the submenu **C49 reset remote trigger** of the proseccor system DAVID-2005 is possible it to put back by switching on of the function on with racable remote releases for the counterweight with resetting tracer the S50 is again deacivated the function.

4.8 Execution of the limit switch trip top

In the submenu C410 limit switch trip top the processor system DAVID-2005 is possible above it to over-drive by switching on of the function on for the upper concise and drive in such a way on the upper limit swich.

4.9 Execution of the limit switch trip bottom

The submenu C411 limit switch trip bottom the processor system David-2005 is possible it to overdrive by switching on of the function on for the lower concise and drive in such a way on the lower limit switch.

4.10 Execution the switch gear cabinet temperature test

In submenu C412 switch gear cabinet temperature test of the processor system DAID-606. You can lower through contactors of the function the threshold value of the temperature monitoring in such a way that error registration takes place immediately.

4.11 Execution input monitor test

In the submenu C413 motor PTC test of the processor system DAVID-2005 is possible to switch for a trip the motor PTC off software-technically in order to produce an error response. A condition is natural that in the menu B600 monitoring functions the motor PTC monitoring is active.

4.12 Execution engine PTC resistor test

In the submenu C414 DSK pulse generator test of the processor system DAVID-2005 is possible to switch for a trip the encoder off. The shaft copying software-technically in order to produce an error response. A condition is natural that in the menu B600 monitoring functions the DSK monitoring is active.



INDEX

| A Absolute dig. copy | 64 |
|----------------------------------|-----------|
| | |
| B | |
| Brake-open-monitor | 77 |
| Brake-shoe-Monitor | 76 |
| С | |
| Car calls | 47 |
| Car controller FRR | 18 |
| Car fan | 79 |
| Car light | 76 |
| Car locking | 87 |
| Car priority | 48 |
| Car position indicator | 72 |
| Central Unit ZR | 11 |
| Code-key | 88 |
| Commissioning the ab. | |
| Shaft Copy with switches | 124 |
| Commissioning the ab. | 126 |
| Shaft Copy without switches | 120 |
| Commissioning the | 114 |
| Inspector Functions | |
| Controller Reset over HPG- 60 | |
| | |
| D | |
| Deviations - Central Unit ZR | 4.4 |
| - Car controller FRR | 11 |
| - Safety Circuit | 18 |
| Diagnose | 17 114 |
| Doors in general | 42 |
| Door Motion Counter | 120 |
| Door Nudging | 45 |
| Door Parameter | 41 |
| Drive Hydraulic Regulated | 54 |
| Drive Hydraulic with | |
| Frequency Inverter | 54 |
| Drive in with open Door | 45 |

Ε

| EG-Declaration | 7 |
|--|-----|
| Elevator observer | 86 |
| Emergency power device | 83 |
| Emergency power service | 83 |
| Event Messages | 120 |
| Expansion Unit for the Central Unit | 16 |

F

| Fault Description | 117 |
|-----------------------|-----|
| Fault fighter Service | 84 |
| Fire Evacuation | 82 |
| Fire Start | 82 |
| Fire Dynamic | 82 |

| G | | |
|-------------------------------|----------|------------|
| General wor | king wit | h the HPG |
| | - | |
| Gong at the | | |
| Gong in the | Car | |
| Group Contr | ol | |
| | | |
| Н | | |
| Handprogra | mming | Unit HPG60 |
| Hanging Wir | е | |
| Hotel Stop | | |
| Hydraulic Dr | ives | |
| Hydraulic Re | egulated | k |
| Hydraulic Regulate ventril RV | | |
| j · · · · | with | Frequency |
| Inverter | | |
| _ | | |
| | | |
| Input Function | ons | |
| Input & Outp | out Sign | al |
| | | |
| Inspection D |)rive | |

| L | |
|-------|-----------------------|
| Lan | ding Calls |
| Lan | ding Priority |
| Lan | guage |
| Lea | der Function |
| Liftp | arameter |
| Loa | d Measure |
| Loc | ked Magnet |
| | |
| Μ | |
| Men | u Description |
| Mini | mum Copy |
| Mon | itoring Drive Process |
| | |
| Mon | itor Functions |
| Mote | or Digital Copy |
| | |
| N | |
| | |
| | ninal Speed |

Inspection Session

| Output | Functions |
|--------|-----------|
| | |

Ρ

| Parking Tra | avel |
|-------------|---|
| Password | *************************************** |
| Photocell | |

| Relative Digital Copy | 6 |
|---|----|
| Releveling | 4 |
| Remote Station | 2 |
| Resend-Drive | 7 |
| Pascua Driva | 8 |
| Rope Frequency Inverter | 5 |
| Dong 2 Spoods | 5 |
| Rope Variable Voltage | 5 |
| Run Time Counter | 11 |
| S | |
| Safety circuit-parameter | 1 |
| Safety circuit PCB | 4 |
| Safety Condition | |
| Serial Interfaces | 3 |
| Shaft Copy system | - |
| - Absolute Digital Copy | 6 |
| - Minimum Copy | 6 |
| - Motor Digital Copy | 6 |
| - Relativ Digital Copy | 6 |
| Standart Conv | 6 |
| - Standart Copy Standart by Drive | |
| Standart by Drive Standart-Time-Monitor | 5 |
| Stanualt-Time-Wohllo | 10 |
| Start Up | 12 |
| T Table of Entrance | 4 |
| | |
| Temperature monitor casing Temperature monitor motor | |
| | |
| | 8 |
| | |
| Time Relays Trip Counter | 12 |
| Type of Drive | 3 |
| U Units Controlling | 11 |
| W | 11 |
| | |



....