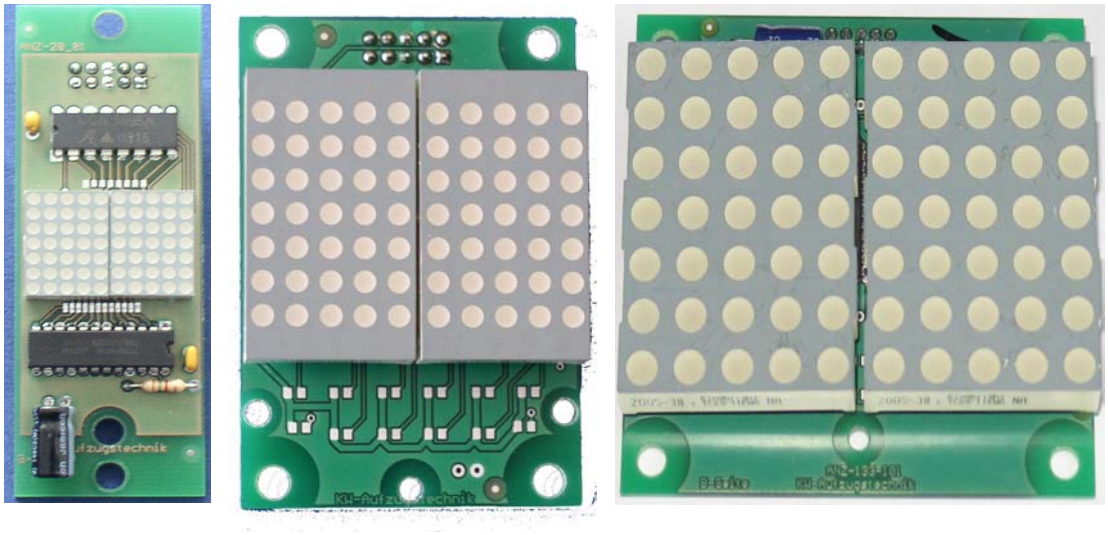
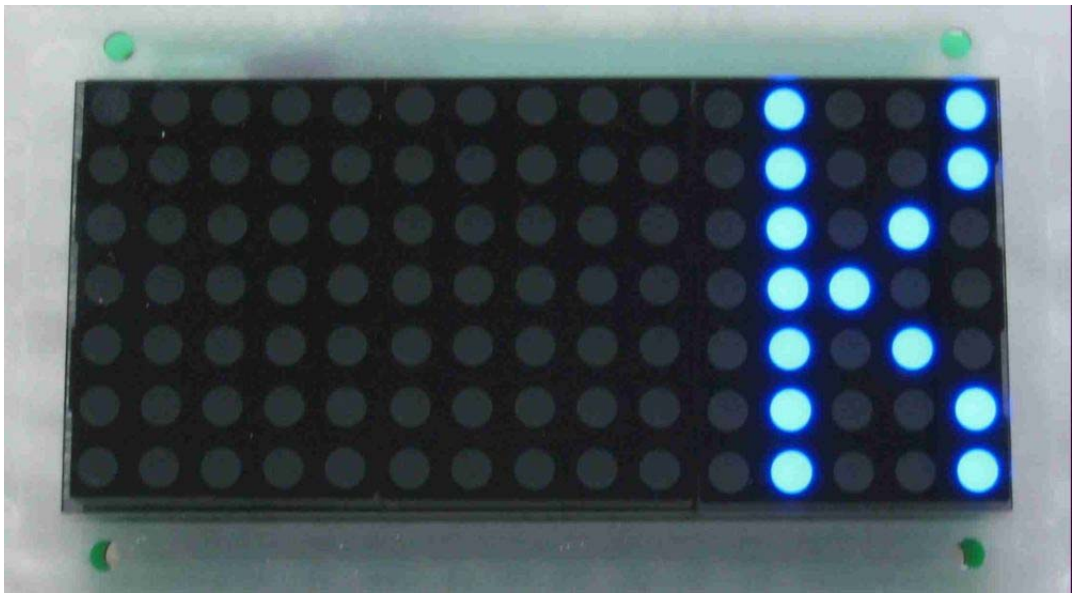
Technical Handbook MATRIXDISPLAY

ANZ-22, -122, -32, -33, -132, -133, -52, -152, -53 & 153





KW Aufzugstechnik GmbH MATRIX DISPLAYS
Type ANZ-22, -122, -32, -132, -33, -133, -52, -152, -53, -153
Version V105

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Contents

1. General execution to this manual

1.1 Product liability and guarantee

We guarantee for the accuracy of the product in the sence of the product informations published by us and this manual. It does not become warranty, legal responsibility, still any adhesion for the economy or error free functions for another purpose, than in chapter 2.1 defined granted.
Claims for damages are only permissible, if the company KW Aufzugstechnik resolution, rough negligence , or which can be proven absence of assured characteristics.
We reject the responsibility for damage to elevator and building mechanisms, even if they result from the malfunctioning of our equipment or the defectiveness of this manual.
No adhesion for damage, is taken over escaped profil and damages if this from innappropriate treatment, not considered safety references or through not by the company KW Aufzugstechnik supplied accessories were caused.
No responsibility for the injury is taken by patent and other rights third.

Other product is appropriate and before distribution after the today´s conditions by science and technology was examined for a high life span. The products of our house are ever continued to improve and developed further.
Should arise despite these preventive measures disturbances and malfunctionings, then our service department is to be informed. Then immediately measures are seized for the recovery of the error.

Guarantee condition

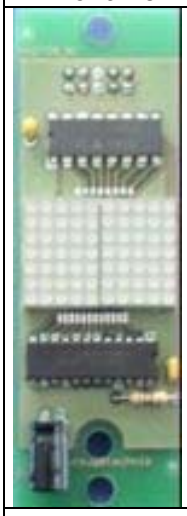
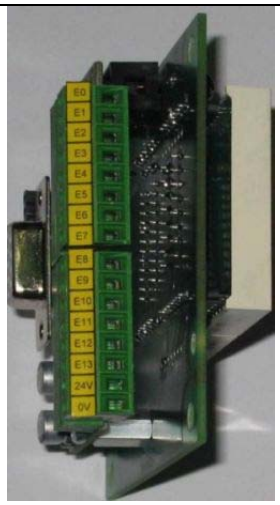
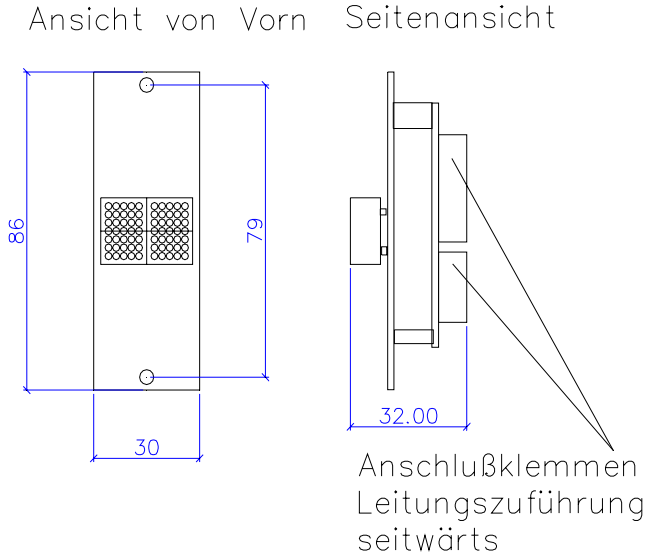
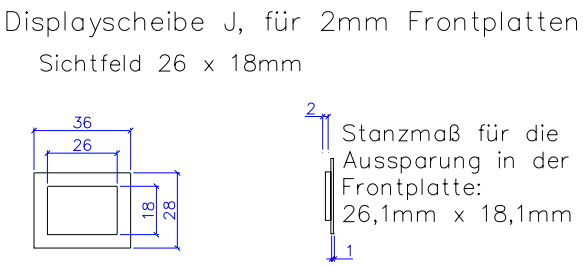
On the function of the equipment in accordance with this manual a warranty is granted for 12 months.
A condition for the free repair are the proven attention of the manual with storage, transport, installation, start-up and enterprice. Only after separate consultation with the company KW Aufzugstechnik interferences at the equipment may take place.
The general trading conditions of the company KW Aufzugstechnik GmbH are valid.

2. Technical manual

2.1 Equipment of the Matrix-display ANZ-22/ 122

The series **ANZ-32** represent a matrix display, which consists of one motherboard, **two** LED matrix blocks and an LED display disk. The number height amounts to **18mm**. The matrix display ANZ-32 is a passive unit and necessary for the control the David control system.

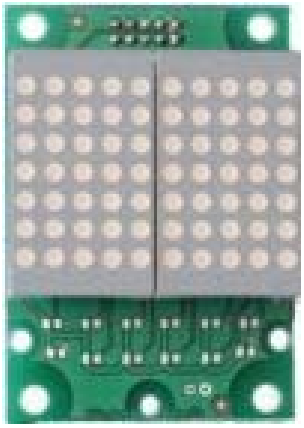
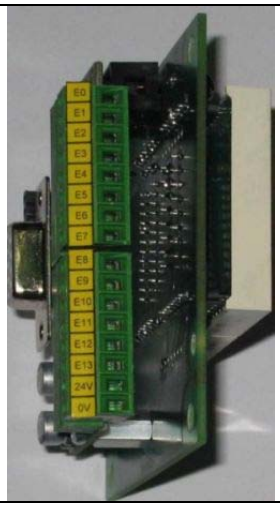
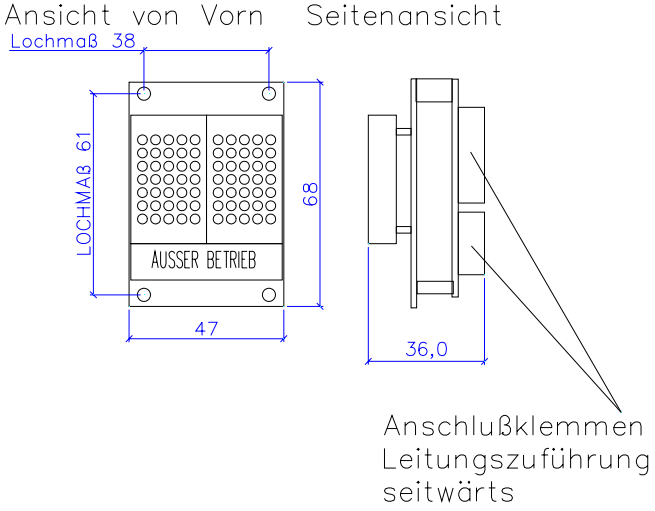
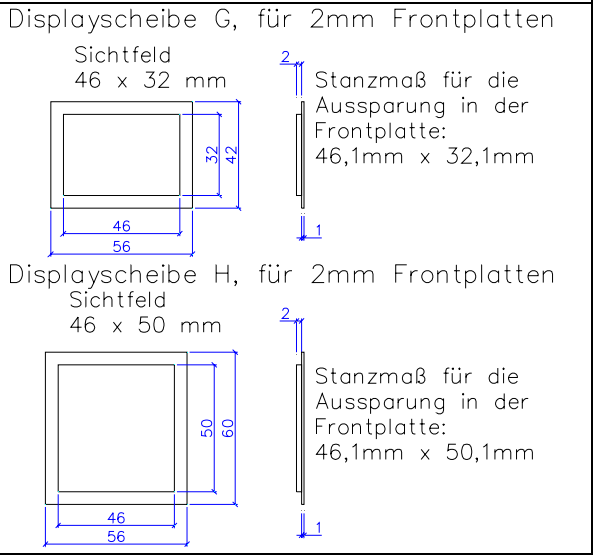
If you connects the **matrix plane ANZ-22** with the processor plate PIC-111 then the **matrix display ANZ-122** develops,which at each elevator control can be operated . 14 entrances are away for driving basket condition visualization, ARROW UP and DOWN, as well as RUN TEXTES fot the order.
For the matrix display ANZ-22 and/ or 122 is to two different matrix discs at the disposal.
The **display disk type J** stretches a visible surface of the size of 26 x 18 mm (B X H) up and is available in the color grey.

Matrixdisplay ANZ-22 -> Front view	**Matrixdisplay ANZ-22 -> View Connections**	**Equipment characteristics and functions**
		- Visualization of the car position, the driving direction and run texts - Voltage supply: 24V DC with 0V purchase - Indicator entrances : 24V DC High or Low active - 14 Inputs controllable in “1 of N” code, Binary code, Cray code - Arrows and stops in more standing or sequential execution
		

2.2 Equipment of the Matrix-display ANZ-32/ 132

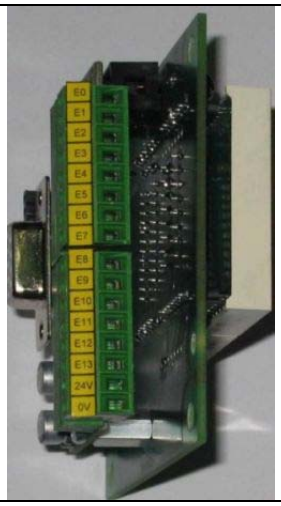
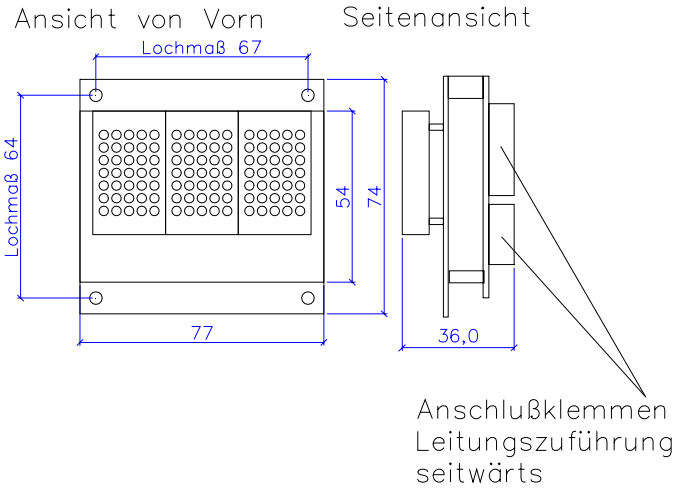
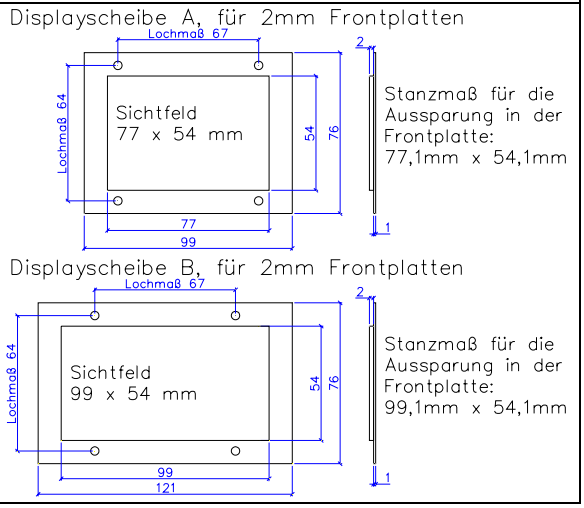
The series **ANZ-32** represent a matrix display, which consists of one motherboard, two LED matrix blocks and an LED display disk. The number height amounts to **30mm**. The matrix display ANZ-32 is a passive unit and necessary for the control the David control system.

If you connects the **matrix plane ANZ-32** with the processor plate PIC-111 then the **matrix display ANZ-132** develops,which at each elevator control can be operated . 14 entrances are away for driving basket condition visualization, ARROW UP and DOWN, as well as RUN TEXTES fot the order.
For the matrix display ANZ-32 and/ or 132 is to two different matrix discs at the disposal.
The **display disk type G** stretches a visible surface of the size of 46 x 32 mm (B X H) up and is available in the color grey.
The **display disk type H** stretches a visible surface of the size of 46 x 50 mm (B X H) up and is available in the color grey.

Matrixdisplay ANZ-32 -> Front view	**Matrixdisplay ANZ-32 -> View Connections**	**Equipment characteristics and functions**
		- Visualization of the car position, the driving direction and run texts - Voltage supply: 24V DC with 0V purchase - Indicator entrances : 24V DC High or Low active - 14 Inputs controllable in “1 of N” code, Binary code, Cray code - Arrows and stops in more standing or sequential execution
		

2.3 Equipment of the Matrix-display ANZ-33/ 133

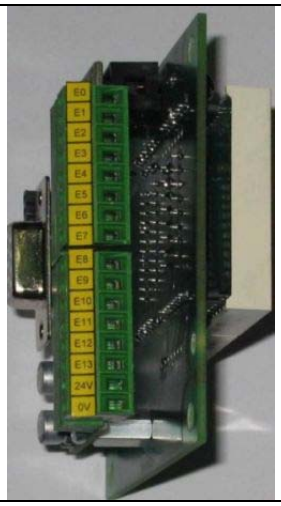
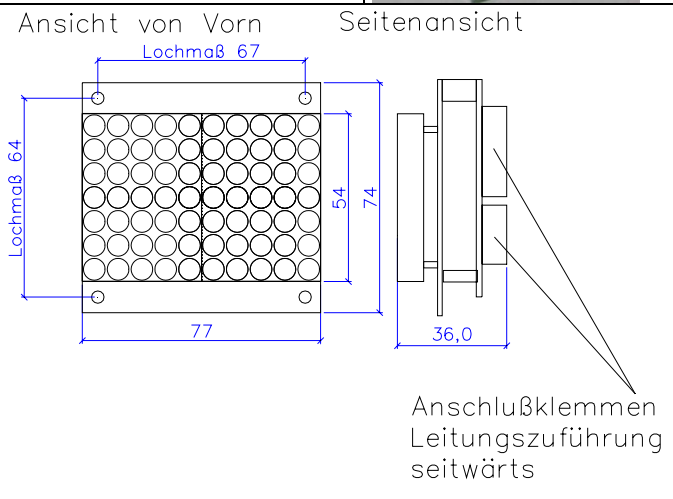
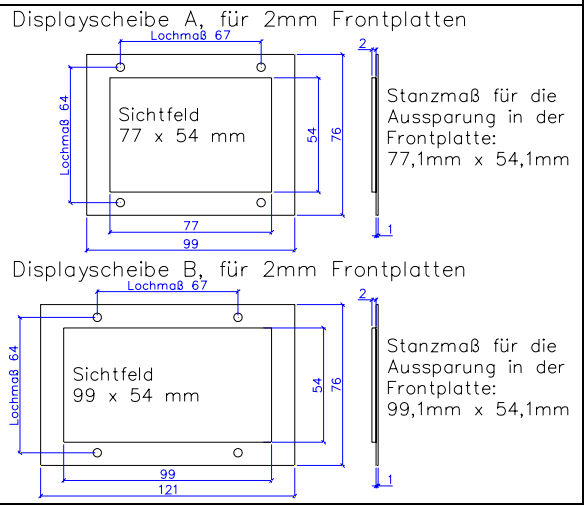
The series **ANZ-33** represent a matrix display, which consists of one motherboard, **three** LED matrix blocks and an LED display disk. The number height amounts to **30mm**. The matrix display ANZ-33 is a passive unit and necessary for the control the David control system.
If you connects the **matrix plane ANZ-33** with the processor plate PIC-111 then the **matrix display ANZ-133** develops,which at each elevator control can be operated . 14 entrances are away for driving basket condition visualization, ARROW UP and DOWN, as well as RUN TEXTES fot the order.
For the matrix display ANZ-33 and/ or 133 is to two different matrix discs at the disposal.
The **display disk type A** stretches a visible surface of the size of 54 x 77 mm (B X H) up and is available in the color grey.
The **display disk type B** stretches a visible surface of the size of 54 x 99 mm (B X H) up and is available in the color grey.

Matrixdisplay ANZ-33 -> Front view	**Matrixdisplay ANZ-33 -> View Connections**	**Equipment characteristics and functions**
		- Visualization of the driving basket conditions, the driving direction and run texts - Voltage supply: 24V DC with 0V purchase - Indicator entrances : 24V DC High or Low active - 14 Inputs controllable in “1 of N” code, Binary code, Cray code - Arrows and stops in more standing or sequential execution
		

2.4 Equipment of the Matrix-display ANZ-52/ 152

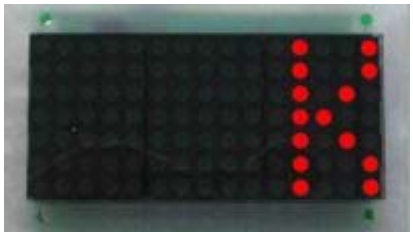
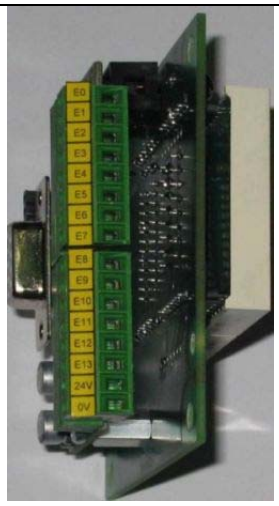
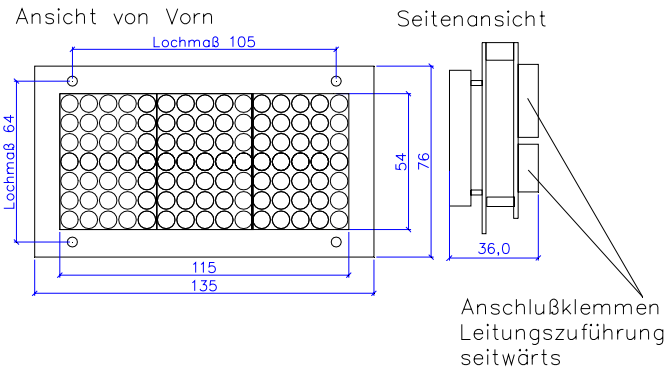
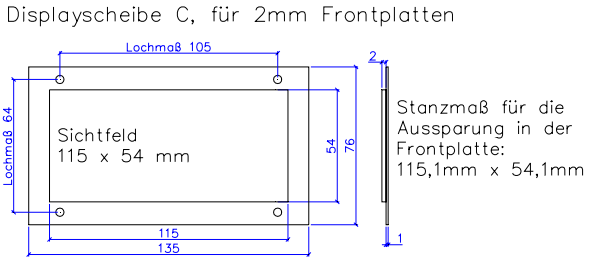
The series **ANZ-52** represent a matrix display, which consists of one motherboard, **two** LED matrix blocks and an LED display disk. The number height amounts to **54mm**. The matrix display ANZ-52 is a passive unit and necessary for the control the David control system.

If you connects the **matrix plane ANZ-52** with the processor plate PIC-111 then the **matrix display ANZ-152** develops,which at each elevator control can be operated . 14 entrances are away for driving basket condition visualization, ARROW UP and DOWN, as well as RUN TEXTES fot the order.
For the matrix display ANZ-52 and/ or 152 is to two different matrix discs at the disposal.
The **display disk type A** stretches a visible surface of the size of 54 x 77 mm (B X H) up and is available in the color grey.
The **display disk type B** stretches a visible surface of the size of 54 x 99 mm (B X H) up and is available in the color grey.

Matrixdisplay ANZ-52 -> Front view	**Matrixdisplay ANZ-52 -> View Connections**	**Equipment characteristics and functions**
		- Visualization of the driving basket conditions, the driving direction and run texts - Voltage supply: 24V DC with 0V purchase - Indicator entrances : 24V DC High or Low active - 14 Inputs controllable in “1 of N” code, Binary code, Cray code - Arrows and stops in more standing or sequential execution
		

2.5 Equipment of the Matrix-display ANZ-53/153

The series **ANZ-53** represent a matrix display, which consists of one motherboard, **three** LED matrix blocks and an LED display disk. The number height amounts to **54mm**. The matrix display ANZ-53 is a passive unit and necessary for the control the David control system.
If you connects the **matrix plane ANZ-53** with the processor plate PIC-111 then the **matrix display ANZ-153** develops,which at each elevator control can be operated . 14 entrances are away for driving basket condition visualization, ARROW UP and DOWN, as well as RUN TEXTES fot the order.
For the matrix display ANZ-53 and/ or 153 is to two different matrix discs at the disposal.
The **display disk type C** stretches a visible surface of the size of 54 x 115 mm (B X H) up and is available in the color grey.

Matrixdisplay ANZ-53 -> Front view	**Matrixdisplay ANZ-53 -> View Connections**	**Equipment characteristics and functions**
		- Visualization of the car position, the driving direction and run texts - Voltage supply: 24V DC with 0V purchase - Indicator entrances : 24V DC High or Low active - 14 Inputs controllable in “1 of N” code, Binary code, Cray code - Arrows and stops in more standing or sequential execution
		

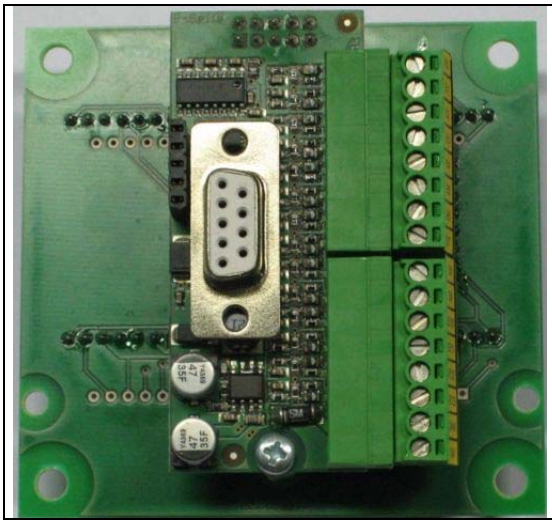
2.6 Equipment of the Processor Unit PIC 111

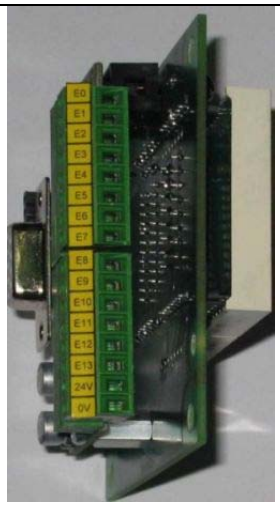
The new processor unit **PIC-111** makes active units from the passive matrix displays ANZ22, –32, -33, -52, and –53. The supply voltage of the building droup amounts to + 24V DC. The characteristic of the entrances isadjustable betwenn **high actively** (+24 V) and **low active** (0V).
The driving basket conditions can be stopped as 1 of N, binary or gray coded. 14 entrances stand for free allocation for order. The attitude takes place via the hand terminal HPG-60. Each entrance can be programmed with the driving basket conditions or the arrows or with run texts.

Floor announcement:
32 floors are selectable, for each floor can two places be adjusted (*blank*-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ). You can position the animation of the numbers. It is available whether the floor announcement is indicated directly with the change or “rolls”

Arrows:
Free available are the functions “Arrow Up” and “ Arrow Down”. The animation of the arrows is adjustable. It is available whether the direction of travel arrow is located firmly in the announcement or “ scroll”

Run texts :
Free available are the texts: “OVERLOAD” , “EVACUATION”, “FIRE-BRIGADE DRIVE” ,“SPECIAL DRIVE” and “OUT OF OPTION”.





E0 Input, free availably
E1 Input, free availably
E2 Input, free availably
E3 Input, free availably
E4 Input, free availably
E5 Input, free availably
E6 Input, free availably
E7 Input, free availably
E8 Input, free availably
E9 Input, free availably
E10 Input, free availably
E11 Input, free availably
E12 Input, free availably
E13 Input, free availably
+24V Control voltage
0V GND 0V DC

2.7 Attitude of the matrix-displays

On the HPG 60 menu options appear:

With the two middle red keys the menu options are selected and with the two right left menu keys become, if available, the individual places in the menu selected.

With the two yellow keys the parameter/ indications are changed.

Menu-1: Floor display

32 Floor dialable, you can adjust two locations for every floor.
(*blank*-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ)

Menu-2: Entrance coding

The entrance coding can be adjusted as binary code, 1 of N or Gray code

- 1 of N – positive logic
- 1 of N invert- negative logic
- binary code- positive logic
- binary code invert – negative logic
- gray code – positive code
- gray code invert – negative logic

If an inverted entrance logic was selected automatically all entrances are inverted and are active if these connected with O-Volt.

Menu-3: Display size

Here you adjusts, the announcement has many segments(2 or 3 segmente)

- 2 Segment
- 3 Segment

Menu-4: Out of option

Here you adjusts which is indications if no entrance code lies close (out of option or no indication)

Menu-5: Animation Arrow

Here you can adjust whether the direction of travel arrow is located firmly in the announcement or „ scroll“

- no animation
- Arrow scroll

Menu-6: animation number

Here one can adjust whether the floor announcement is indicated directly with the change or “scroll”

- no animation
- numbers scroll

Menu-7: Allocation Input-I0

Here you can specify the entrance allocation of the Input-I0. The following selection is available:

- no function
- binary/gray/1of N-0
- binary/gray/1of N-1
- binary/gray/1of N-2
- binary/gray/1of N-3
- binary/gray/1of N-4
- binary/gray/1of N-5
- 1 of N-6
- 1 of N-7
- 1 of N-8
- 1 of N-9
- 1 of N-10
- 1 of N-11
- 1 of N-12
- 1 of N-13
- Arrow-UP
- Arrow-DOWN
- Scrolling text OVERLOAD
- Scrolling text EVACUATION
- Scrolling text FIRE-BRIGADE DRIVE
- Scrolling text SPECIAL DRIVE
- Scrolling text OUT OF CONTRO

Menu-8: Allocation Input-I1

Here you can specify the entrance allocation of the Input-I1. See at top

Menu-9: Allocation Input-I2
Here you can specify the entrance allocation of the Input-I2. See at top

Menu-10: Allocation Input-I3
Here you can specify the entrance allocation of the Input-I3. See at top

Menu-11: Allocation Input-I4
Here you can specify the entrance allocation of the Input-I4. See at top

Menu-12: Allocation Input-I5
Here you can specify the entrance allocation of the Input-I5. See at top

Menu-13: Allocation Input-I6
Here you can specify the entrance allocation of the Input-I6. See at top

Menu-14: Allocation Input-I7
Here you can specify the entrance allocation of the Input-I7. See at top

Menu-15: Allocation Input-I8
Here you can specify the entrance allocation of the Input-I8. See at top

Menu-16: Allocation Input-I9
Here you can specify the entrance allocation of the Input-I9. See at top

Menu-17: Allocation Input-I10
Here you can specify the entrance allocation of the Input-I10. See at top

Menu-18: Allocation Input-I11
Here you can specify the entrance allocation of the Input-I11. See at top

Menu-19: Allocation Input-I12
Here you can specify the entrance allocation of the Input-I12. See at top

Menu-20: Allocation Input-I13
Here you can specify the entrance allocation of the Input-I13. See at top

2.8 Operating conditions

According to DIN/CVDE 0558 the devices are appropriate for an ambient temperature from 0 to 450C.

2.9 References to assembly and installation

- Before using the display disk it is to be examined whether the recess in the tablet exhibits sufficient play, so that the display disk is not damaged.
- M3 screw mounting should be weded on the back indicator board, so that in the drilling of the display disk sufficient tolerance is present.
- After the display disk was installed, the printed circuit board with array elements can be screwed on, whereby those is recommended using plastic wearing parts (isolation of the plate to the earth of the indicator board).
- When connecting supply voltage is to be paid attention to the correct polarity. Avoid short-sircuits and grounding connections.
- With the installation VDE and DIN standatds are to be considered (VDE 0105 as the case may be DIN 57105).

3.0 Order references

Matrixdisplay ANZ-22 / 122, 2 segmets, 18mm character size. Color red or blue complete with diplaypanel. Programmable for code representations 1 of N, binary and gray code. The series 122 already integrated the processor unit PIC 111.

Description	Part-No.
Matrixdisplay ANZ-22, Color red, Displaypanel grey, Type J	1001001
Matrixdisplay ANZ-22, Color blue, Displaypanel grey, Type J	1001002
Matrixdisplay ANZ-122, Color red, Displaypanel grey, Type J	1001003
Matrixdisplay ANZ-122, Color blue, Displaypanel grey, Type J	1001004
Matrixdisplay ANZ-22, Color red, without Displaypanel	1001005
Matrixdisplay ANZ-22, Color blue, without Displaypanel	1001006
Matrixdisplay ANZ-122, Color red, without Displaypanel	1001007
Matrixdisplay ANZ-122, Color blue, without Displaypanel	1001008

Matrixdisplay ANZ-32 / 132, 2 segmets, 30mm character size & illuminant field. Color red or blue complete with diplaypanel. Programmable for code representations 1 of N, binary and gray code. The series 122 already integrated the processor unit PIC 111.

Description	Part-No.
Matrixdisplay ANZ-32, Color red, Displaypanel grey, Type G	1001011
Matrixdisplay ANZ-32, Color blue, Displaypanel grey, Type G	1001012
Matrixdisplay ANZ-132, Color red, Displaypanel grey, Type G	1001013
Matrixdisplay ANZ-132, Color blue, Displaypanel grey, Type G	1001014
Matrixdisplay ANZ-32, Color red, without Displaypanel	1001015
Matrixdisplay ANZ-32, Color blue, without Displaypanel	1001016
Matrixdisplay ANZ-132, Color red, without Displaypanel	1001017
Matrixdisplay ANZ-132, Color blue, without Displaypanel	1001018

Matrixdisplay ANZ-33 / 133, 3 segmets, 30mm character size. Color red or blue complete with diplaypanel. Programmable for code representations 1 of N, binary and gray code. The series 133 already integrated the processor unit PIC 111.

Description	Part-No.
Matrixdisplay ANZ-33, Color red, Displaypanel grey, Type B,	1001031
Matrixdisplay ANZ-33, Color blue, Displaypanel grey, Type B,	1001032
Matrixdisplay ANZ-133, Color red, Displaypanel grey Type B,	1001033
Matrixdisplay ANZ-133, Color blue, Displaypanel grey, Type B,	1001034
Matrixdisplay ANZ-33, Color red, without Displaypanel	1001035
Matrixdisplay ANZ-33, Color blue, without Displaypanel	1001036
Matrixdisplay ANZ-133, Color red, without Displaypanel	1001037
Matrixdisplay ANZ-133, Color blue, without Displaypanel	1001038
Matrixdisplay ANZ-33, LF, Color red, without Displaypanel	1001039
Matrixdisplay ANZ-133, LF, Color red, without Displaypanel	1001040

Matrixdisplay ANZ-52 / 152, 2 segmets, 54mm character size. Color red or blue complete with diplaypanel. Programmable for code representations 1 of N, binary and gray code. The series 152 already integrated the processor unit PIC 111.

Description	Part-No.
Matrixdisplay ANZ-52, Color red, Displaypanel grey, Type B	1001041
Matrixdisplay ANZ-52, Color blue, Displaypanel grey, Type B	1001042
Matrixdisplay ANZ-152, Color red, Displaypanel grey, Type B	1001043
Matrixdisplay ANZ-152, Color blue, Displaypanel grey, Type B	1001044
Matrixdisplay ANZ-52, Color red, without Displaypanel	1001045
Matrixdisplay ANZ-52, Color blue, without Displaypanel	1001046
Matrixdisplay ANZ-152, Color red, without Displaypanel	1001047
Matrixdisplay ANZ-152, Color blue, without Displaypanel	1001048

Matrixdisplay ANZ-53 / 153, 3 segmets, 54mm character size. Color red or blue complete with diplaypanel. Programmable for code representations 1 of N, binary and gray code. The series 153 already integrated the processor unit PIC 111.

Description	Part-No.
Matrixdisplay ANZ-53, Color red, Displaypanel grey, Type C	1001052
Matrixdisplay ANZ-53, Color blue,Displaypanel grey, Type C	1001053
Matrixdisplay ANZ-153, Color red, Displaypanel grey, Type C	1001054
Matrixdisplay ANZ-153, Color blue,Displaypanel grey, Type C	1001055
Matrixdisplay ANZ-53, Color red, without Displaypanel	1001055
Matrixdisplay ANZ-53, Color blue, without Displaypanel	1001056
Matrixdisplay ANZ-153, Color red, without Displaypanel	1001057
Matrixdisplay ANZ-153, Color blue, without Displaypanel	1001058

Processor unit PIC 111, eight entrances are away for driving basket condition visualization., two entrances for arrow Up ande Down, as well as an entrance for the control of the annunciator for the order.

Description	Part-No.
Processor unit PIC-111,	1001000

Spare parts, Displaypanel for the matrixdisplays , 3mm material thichness, for 2 mm front plates, with four mountng holes for welding pins. (excepting Type D).

Description			Part-No.
Displaypanel grey,	Type A; 99 x 76 x 3mm, Field vision	77 x 54mm	1000976
Displaypanel grey,	Type B; 121 x 76 x 3mm, Field vision	99 x 54mm	1000977
Displaypanel grey,	Type C; 135 x 76 x 3mm, Field vision	115 x 54mm	1000978
Displaypanel grey,	Type D; 125 x 140 x 3mm, Field vision	115 x 130mm	1000979
Displaypanel grey,	Type G; 56 x 42 x 3mm, Field vision	46 x 32mm	1000982
Displaypanel grey,	Type H; 56 x 60 x 3mm, Field vision	46 x 50mm	1000983
Displaypanel grey,	Type J; 36 x 282 x 3mm, Field vision	26 x 18mm	1000985
Displaypanel clear,	Type Q; 112 x 63 x 3mm, Field vision	112 x 63mm	1000999

Price term : ex factory, packed, uninsured, plus sales tax

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