

Display and control unit UP 584/585/586
5WG1 584-2AB_1
5WG1 585-2AB_1
5WG1 586-2AB_1

| | DELTA profil | DELTA ambiente | DELTA style |
|----------------------------------|--|-----------------------------|--|
| Display and control panel | 5WG1 585-2AB01 pearl grey 5WG1 585-2AB11 titanium white 5WG1 585-2AB21 anthracite 5WG1 585-2AB71 silver | 5WG1 586-2AB01 arctic white | 5WG1 584-2AB21 basalt black 5WG1 585-2AB11 titanium white |
| Intermediate frame | - | - | 5TG1 328 titanium white 5TG1 368 basalt black |
| Frame | Must be ordered separately from the DELTA ranges | | |

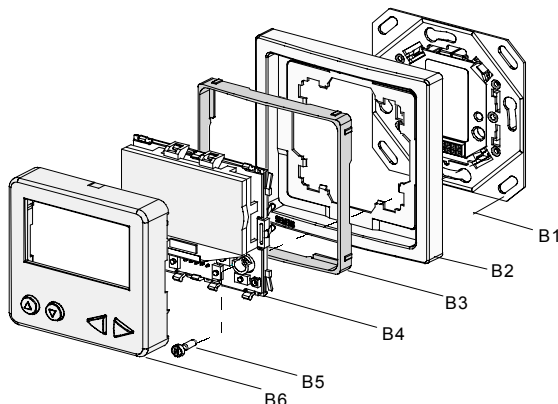


Diagram 1: Installation of the display unit

- B1. Driver with bus connection
- B2. Frame
- B3. Intermediate frame
(only for DELTA style)
- B4. Display unit
- B5. Screws for fixing the display unit onto the driver B1
- B6. Cover

Scope of supply:

(e.g. order no.: 5WG1 585-2AB01)

- B1. Driver with bus connection
- B4. Display unit
- B5. Screws for fixing the display unit onto the driver B1
- B6. Cover

Product and Applications Description

The display unit is used to indicate freely programmable messages. A message generally consists of read-only text and placeholders.

The display unit can be freely configured with different fonts, characters and symbols. Depending on the parameter settings, it is possible to assign alarm functions to the messages. The display is carried out via a graphical LC display. If Arial font is used in 12 pt, 5 lines can be displayed. The LC display contains green/yellow backlighting which can be switched on and off via software. The output of an alarm tone can also be set. The various messages can be selected by pressing the two push buttons on the display unit. It is also possible to operate selectable bus functions with two further push buttons.

The display unit is placed on the bus driver module together with the relevant frame. It can only function in connection with this bus driver module and an appropriate application program i.e. the display unit consists

of the device [hardware] and the application program [software].

The frames are not included with supply and must be ordered separately. The intermediate frame should be used for DELTA style.

With the help of ETS (*EIB Tool Software*), the application programs can be selected and the specific parameters and addresses can be assigned.

Application programs

01 07 Graphical display unit 801501

(for ETS2 version 1.2 or later)

01 07 Graphical display unit 801502

(for ETS3 version 1.0 or later)

- The graphical display unit can indicate up to 16 different messages about the states of bus devices using various fonts or symbols and can also actively modify these states.
- The display unit has backlighting as well as a buzzer. Both the backlighting and the buzzer can be set, optionally active or passive mode.
- In the event of an alarm, a signal is sent on the bus and the selected message simultaneously flashes in the centre of the display unit (the frequency can be set).

Note:

The application programs can be used only with ETS2 version 1.2 or later versions of the ETS.

Installation instructions

- The device can be used for permanent interior installations in dry rooms and for insertion in flush-type boxes.

WARNING

- The device must be mounted and commissioned by an authorised electrician.
- The device may not be used in the same box as 230 V devices and/or 230 V cables.
- The device may be used in switch sockets provided that VDE approved devices are used.
- The prevailing safety and accident regulations must be observed.
- The device must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

Technical data

Power supply

Via the bus line

Operating elements

2 push buttons for operating the display function and 2 push buttons for operating the selectable bus functions. 1 learning button under the cover B6 for toggling between normal mode / addressing mode

Display elements

LC display (contains green/yellow backlighting which can be switched on and off via software).

1 red LED for checking the bus voltage and for displaying normal mode / addressing mode

Number of messages

16 (freely selectable)

Number of characters per message

- Up to 30 characters per line depending on the font
- Up to 3 lines

Alarm functions

- Priority display of alarm messages
- Optical display (flashing)
- Acoustic signal (signal tone)
- Acoustic feedback via push button action

Connections

- EIB bus terminal

Mechanical data

- Housing: plastic
- Dimensions (L x W x D):
 - Display unit UP 584, UP 585, UP 586:
65 x 65 x 20 mm (without spring)
65 x 65 x 33 mm (including spring)
 - Driver: 71 x 71 x 16 mm
- Weight: approx. 100 g
- Fire load: approx. 1500 kJ ± 10 %
- Installation: The display unit is mounted on the relevant bus driver module. It cannot be plugged onto the standard type of bus coupler and no other operator interfaces can be operated on the driver.

Electrical safety

- Degree of pollution (according to IEC 60664-1): 2
- Type of protection (according to EN 60529): IP 20
- Protection class (according to IEC 61140): III
- Overvoltage category (according to IEC 60664-1): III
- Bus: safety extra-low voltage SELV DC 24 V

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- Device complies with
EN 50090-2-2 and IEC 60664-1

EMC requirements

Complies with EN 50081-1, EN 50090-2-2 and
EN 61000-6-2

Environmental conditions

- Climatic withstand capability: EN 50090-2-2
- Ambient operating temperature: - 5 ... + 45 °C
- Storage temperature: - 25 ... + 70 °C
- Relative humidity [not condensing]: 5 % to 93 %

Reliability

Rate of failure: 572 fit

Approval

EIB certified

CE mark

In accordance with the EMC guideline (residential and
functional buildings) and the low voltage guideline

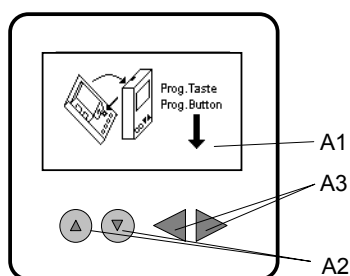
Location and function of the operating elements

Diagram 2: Location of the display and operating elements

- A1 LC display (LCD) for indicating the messages
 A2 Push buttons for scrolling through the lines (UP / DOWN)
 A3 Push buttons for controlling the selectable bus functions

Installation of the driverGeneral description

The display unit is placed on the driver together with
the relevant frame.

The driver with bus connection is inserted in boxes of
60 mm Ø using screw fixing.

The connection to the bus line is carried out via plug-in
screwless terminals for single-core conductors.

The driver with bus connection should be mounted so
that the interface is located at the bottom (Diagram 3).
This ensures that the display unit that is connected to
the interface is mounted in the correct operational position.

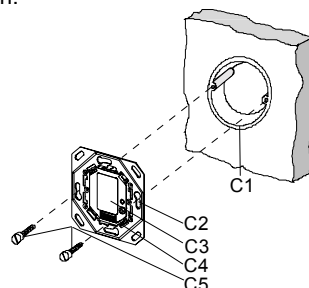


Diagram 3: Installation of the driver with bus connection

- C1 Installation box (60 mm Ø according to
DIN 49073)
 C2 Slots for fixing
 C3 Driver with bus connection
 C4 Interface
 C5 Fixing screws

Bus terminal (Diagram 4)

The bus terminal (D2) is located at the rear of the
driver.

Connecting the bus cable (Diagram 4)

- The bus terminal (D2) is suitable for single-core conductors with 0.6 ... 0.8 mm Ø.
- The bus terminal (terminal block) (D2) consists of two components (D2.1, D2.2), each with four terminal contacts, Diagram 7.
- Strip the insulation from the conductor (D3) and place in the terminal (D2) (red = +, grey = -).

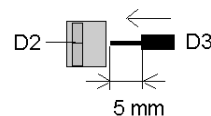
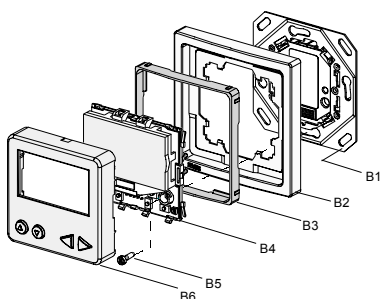


Diagram 4: Connecting the bus cable

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Installation of the display



- B1 Driver with bus connection
- B2 Frames
- B3 Intermediate frame (only for DELTA style)
- B4 Display unit
- B5 Screws for fixing the display unit onto the driver B1
- B6 Cover

- Place the display unit (B4) with B6 and the relevant frame (B2) onto the driver (B1).
- Remove the cover (B6) from the display unit as described under 'Dismantling' in order to program the physical address.
- Secure the display unit (B4) with the two screws (B5).
- Now program the physical address.
The location of the programming button and the programming LED is indicated in Diagram 5.
- Remove the protective film from the LC display, Diagram 6c.
- Place the cover (B6) on the display unit again (B4).

Location of the programming button and programming LED

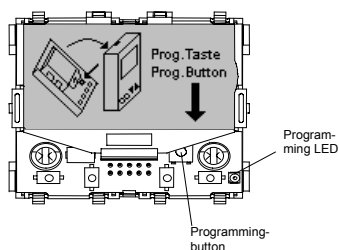


Diagram 5: Location of the programming button and LED is also indicated on a non-configured LCD if bus voltage has been applied

Dismantling

- Remove the cover as described in Diagram 6a or 6b.

Caution:

Do not touch any components apart from the programming button (Diagram 6) as damage could otherwise be caused.

- Loosen the fixing screws (B5).
- Place the cover (B6) back on the display unit (B4).
- Remove the frame (B2) together with the display unit from the driver.
- Loosen the screws of the driver in the flush-type box (Diagram 3).
- Separate the bus driver module from the bus cable (Diagram 7).

Removing the cover (Diagram 6a and 6b)

Variant 1: Gently press the sides of the cover together and tilt.

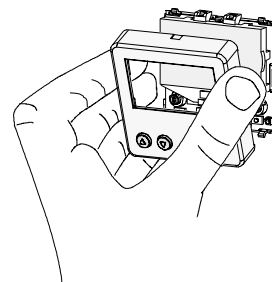


Diagram 6a: Variant 1

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Variant 2: The cover has an opening at the top in the centre for removal.
Place the screwdriver at the opening and lift the top of the cover forwards with the screwdriver.

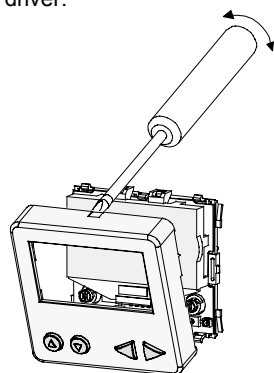


Diagram 6b: Variant 2

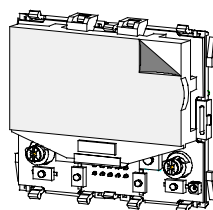


Diagram 6c: Removing the protective film

Removing/inserting the bus terminal (Diagram 7)

- To remove the bus terminal, carefully insert the screwdriver in the wire entry slot in the grey section of the bus terminal (D2.2) and pull the bus terminal (D2) out of the driver (D1).
- To insert the bus terminal, place the bus terminal (D2) in the guide slot of the driver with bus connection (D1) and press the bus terminal (D2) downwards until it reaches the stop.

Note: Do not jumper bus connections as there is a danger of shorting the device.

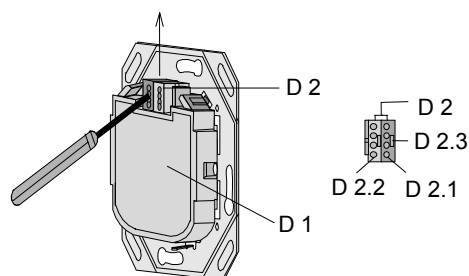


Diagram 7: Removing the bus terminal

Disconnecting the bus cable (Diagram 8)

- Remove the bus terminal (D2) as shown in Diagram 8 and pull out the conductor (D3) of the bus cable by simultaneously rotating backwards and forwards.

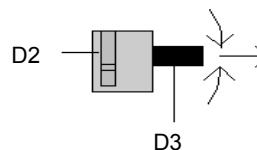
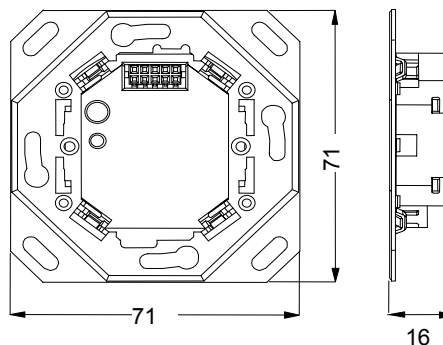


Diagram 8: Disconnecting the bus cables

Dimension Driver

Dimensions in mm



1 Spacer unit (SU) = 18mm

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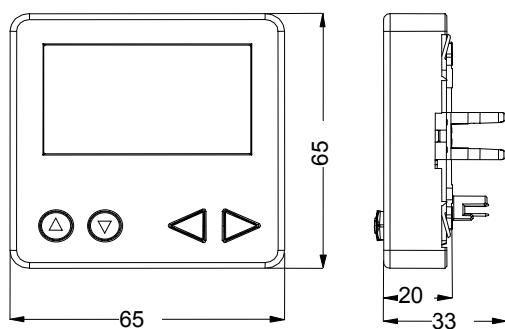
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Dimension Display unit

Dimensions in mm



1 Spacer unit (SU) = 18mm

General Notes

- Any faulty device should be returned to the local Siemens office.
- If you have further questions about the product, please contact our Technical Support:
 - +49 (0) 180 50 50-222
 - +49 (0) 180 50 50-223
 - adsupport@siemens.com
 - www.siemens.com/automation/support-request