


Interface UP 142E/146E	5WG1 142-2EB_1 5WG1 146-2EB_1
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Product	DELTA profil	DELTA ambiente	DELTA style
USB Interface 	pearl grey 5WG1 146-2EB01 titanium white 5WG1 146-2EB11 anthracite 5WG1 146-2EB21 silver 5WG1 146-2EB71	arctic white 5WG1 142-2EB01 cosmos grey 5WG1 142-2EB11 royal blue 5WG1 142-2EB21	titanium white 5WG1 146-2EB11
Frame	To be ordered separately from the DELTA range		
	cut-out frames		
Tier frame			titanium white 5TG1 1328
Bus coupling unit	UP 110; UP 114		

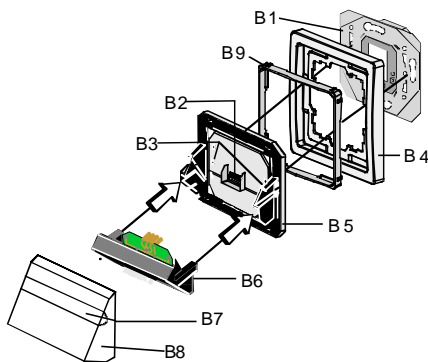


Diagram 1: USB Interface flush mounted

- B1 Bus coupling unit UP
- B2 Socket connector *)
- B3 Mounting screws *)
- B4 Frame
- B5 Base module *)
- B6 Supporting plate *)
- B7 Note label *)
- B8 Cover *)
- B9 Tier frame (style)

*) Scope of supply

Product and Applications Description

The USB interface enables with its built-in USB socket (Type B) a personal computer (AT compatible PC) to be attached for addressing, parameterising, visualising, logging and diagnosis of bus devices.

With the USB interface it is possible to operate all bus devices isolated and under observation of the standardised EIB protocol in the whole bus system.

Communication with the BCU is carried out using one of two protocols, standard protocol or FT1.2 protocol, the switching is done by the connected PC and depends on the used BCU.

The USB interface is compatible to USB 1.1, the transmission rate between the PC and the interface is therefore up to 12 Mbit/s.

The connection of the USB interface and the PC is arranged between the USB socket of the USB interface and any USB socket of the PC or a connected USB hub.

The required USB cable is not part of the shipment but has to be bought separately, e.g. at an authorised computer store.

The interface is slid onto the bus coupling unit UP together with its frame. It requires a bus coupling unit to work properly.

It is possible e.g. to remove a UP push button from its bus coupling unit UP and replace it with an interface UP. This does not destroy the application program of the bus coupling unit UP.

The bus coupling unit UP and frame are not included and therefore have to be ordered separately. Cut-out frames should be used for DELTA profil.

Note:

The USB interface is supported by ETS only from ETS3 onwards!

Application programs

10 CO Dummy 700002

- converts the bus coupling unit UP into interface mode and erases the bus coupling unit UP memory

Installation Instructions

The device may be used for permanent interior installations in dry locations within box mounts (in combination with a bus coupling unit UP).

WARNING

- The device must be mounted and commissioned by an authorised electrician.
- The device must not be mounted in box mounts together with 230 V devices.
- The device may be mounted to switch and socket combination box mounts (together with a bus coupling unit UP) if VDE-certified devices are used exclusively.
- The prevailing safety rules must be heeded.
- 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 bus coupling unit UP and via USB from the connected PC

Transmission rate

- between PC and USB interface:
USB1.1 speed (max. 12 MBit/s)
- between USB interface and bus coupling unit:
9600 (standard protocol) or 19200 Baud (FT1.2 protocol),
depending on the used BCU and PC program
- between USB interface and bus line:
9600 Baud

Connection cable

available from authorised computer stores
(normal USB cable for PC peripherals with plugs A-B)

Connections

- 10-pin connector (PEI): for connection to a bus coupling unit UP
- USB socket type B
length of data cable: max. 5 m

Interface UP 142E/146E

5WG1 142-2EB_1
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Physical specifications

- housing: plastic
- dimensions (L x W x D): 65 x 65 x 42 mm (without PEI)
- weight: approx. 65 g
- fire load: approx. 1450 kJ
- installation: slide onto bus coupling unit UP and secure with the mounting screws included

Electrical safety

- degree of pollution (according to IEC 60664-1): 2
- protection (according to EN 60529): IP 20
- protection class (according to IEC 61140): III
- overvoltage class (according to IEC 60664-1): III
- bus: safety extra low voltage SELV DC 24 V
- device complies with EN 50 090-2-2 and IEC 60664-1

Reliability

rate of failure: <500 fit at 40 °C

Electromagnetic compatibility

complies with EN 50081-1, EN 61 000-6-2 and EN 50090-2-2

Environmental specifications

- climatic conditions: EN 50 090-2-2
- ambient temperature operating: - 5 ... + 45 °C
- storage temperature: - 25 ... + 70 °C
- relative humidity (non-condensing): 5 % to 93 %

Certification

EIB certificate

CE norm

complies with the EMC regulations (residential and functional buildings), and low voltage regulations

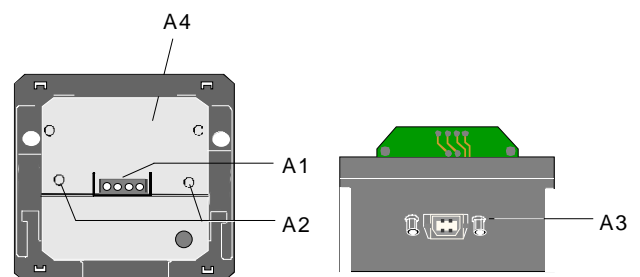
Location and function of the operating elements

Diagram 2: *Main module and supporting plate*

- A1 Socket connector
- A2 Mounting screws
- A3 USB socket type B
- A4 Base modul

Mounting and wiring

General description

The interface is slid onto the bus coupling unit UP together with its frame.

The UP bus coupling unit is mounted and connected to the UP box mount (see mounting instructions of bus coupling unit UP).

Sequence of assembly

- The base module (B5) is slid together with the frames (B4/B9) onto the bus coupling unit UP (B1).
- Drive the mounting screws (B3) into (B1).
- Mount the supporting panel (B6) onto the base module (B5).
- Snap on the cover (B8).
- The cover of the note label (B7) can be removed by meshing into the recesses on its side faces if a note shall be applied.

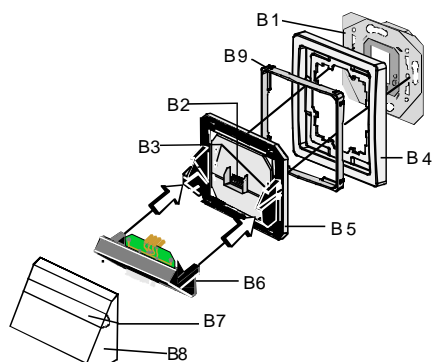


Diagram 3: Mounting the USB interface

- B1 Bus coupling unit UP
- B2 Socket connector
- B3 Mounting screws
- B4 Frame
- B5 Base module
- B6 Supporting panel
- B7 Note label
- B8 Cover
- B9 Tier frame (style)

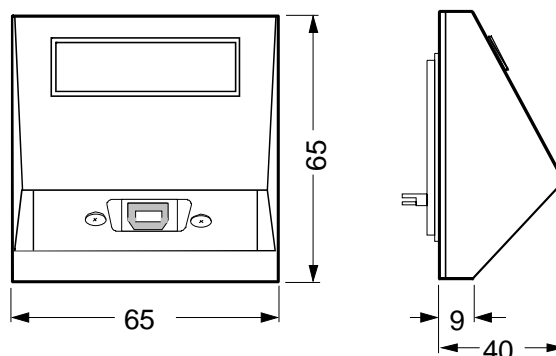
Dismounting

- Seize the cover (B8) on both sides and remove it by sliding it upwards.
- Loosen the screws (B3) and remove (B5) from (B1).

Dimension diagram

DELTA profil, DELTA ambiente and DELTA style

Dimensions in mm



General Notes

- Any faulty devices 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

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www.siemens.com/automation/support-request