Touch panel UP 588	**5WG1 588-2AB01**
Touch panel UP 588/11	**5WG1 588-2AB11**
Touch panel UP 588/21	**5WG1 588-2AB21**
Accessories: Design frame, anodised aluminium	**5WG1 588-8AB01**

Product and Applications Description

The touch panel UP 588 is a multifunctional display/control unit for the EIB. The basis of the device is an LC display with a resolution of 320 x 240 pixels and an integrated, resistive matrix with 6 x 10 fields. The display has backlighting available, which is activated during operation and can be switched off automatically after an adjustable period.

- Touch-Panel UP 588 5WG1 588-2AB01
  backlighting green AC 230V
- Touch-Panel UP 588/11 5WG1 588-2AB11
  backlighting white AC 230V
- Touch-Panel UP 588/21 5WG1 588-2AB21
  backlighting white AC / DC 24V

In connection with the associated application program, the display unit can be used for the following functions: the display and operation of up to 70 EIB standard functions on 7 display pages, the display of an alarm page with 4 alarm signals and 2 text messages as well as the execution of time-controlled tasks.
The following accessories are required for the touch panel:
Design frame, aluminium 5WG1 588-8AB01

Application Programs

01 07 Touch-Panel vision 802103

- display and operation of up to 70 EIB standard functions on 7 display pages
- display of an alarm page with 4 alarm signals and 2 text messages
- execution of time-controlled tasks
- 8 scene with 10 communication objects are possible
- display of date and time

Installation instructions

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

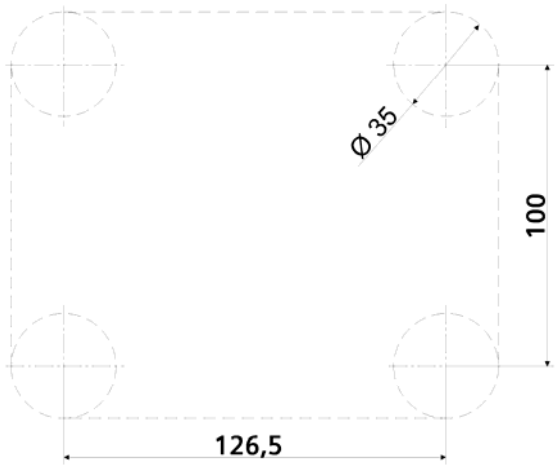

Diagram 1: *drilling jig for cavity wall box for Touch panel UP 588*

WARNING

- The device may only be installed and commissioned by an authorised electrician.
- The device may only be used in connection with the named accessories, in particular the flush-type box.
- 230V devices which are not included with supply may not be inserted in the flush-type box. It is also not possible to loop through 230V cables.
- The prevailing safety and accident regulations should be observed.
- The power supply voltage may only be connected to the supply if the device has been fully installed.
- Electrical isolation should be ensured between the bus cable and the 230V power supply.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

Technical Product Information

April 2006

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Technical Specifications

Power supply
- Bus voltage: via the bus line
- External power supply
  - Touch-Panel UP 588 and Touch-Panel UP 588/11
    230 V AC ±10%, 50/60 Hz
  - Touch-Panel UP 588/21
    12 - 36V DC, 120mA
    10 - 28V AC, 50/60 Hz, 120mA

Operating elements
- Learning button for toggling between normal/addressing mode
- Resistive matrix with 6 x 10 fields (touch-sensitive display)

Display elements
- Red programming LED for displaying normal/addressing mode
- 320 x 240 pixel display with graphic capability and backlighting

Connections
- Bus line: EIB bus terminal, screwless
  0.6 ... 0.8mm ∅ solid
  insulation strip length 5mm
- Power supply
  Insulation strip length: 6...7mm
  The following conductors/conductor cross-sections are permitted:
  - 0.5...2.5mm² solid
  - 0.5...1.5mm² finely-stranded

Mechanical data
- Housing: plastic
- Dimensions (WxHxD): 190 x 156 x 58mm
- Mounting depth in flush-type box: 52mm
- Installation: screwed into the relevant flush-type box
- Dimensions of relevant flush-type box (WxHxD): 164 x 138 x 65 mm, included with supply
- Weight: approx. 350 g

Electrical safety
- Degree of pollution 2
- Type of protection (according to EN 60529): IP 20
- Overvoltage category: III
- Bus: safety extra-low voltage SELV DC 24 V
- Device complies with EN50090-2-2

EMC requirements
Complies with EN 61000-6-1 and EN 61000-6-2

Ambient conditions
- Climatic withstand capability: EN 50090-2-2
- Ambient operating conditions: 0°C to +45°C
- Storage temperature: -25°C to +70°C
- Relative humidity (not condensing): 5 % to 93 %

Markings
KNX/EIB

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

Siemens AG
Automation and Drives Group
Electrical Installation Technology
P.O.Box 10 09 53, D-93009 Regensburg

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Location and function of the conjunction- and operating elements

The device connections as well as the learning button and programming LED which are required for the commissioning stage are accessible at the back of the device. Diagram 1 shows the back of the device.

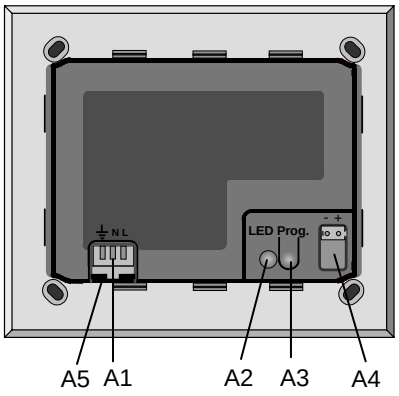
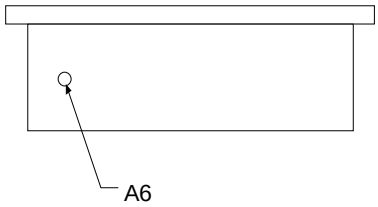


Diagram 2: Location of the display and operating elements

A1 Terminal compartment for the connection of the power supply terminal
A2 Programming LED
A3 Learning button
A4 Bus terminal
A5 Latching

The connection of the bus cable is carried out via a standard bus terminal which is inserted in the corresponding terminal locator on the right-hand side of the housing. The learning button and the programming LED are located on the left next to the module slot for the bus terminal. The terminal for the power supply is on the left-hand side of the device. The terminal must be withdrawn in order to connect the power supply cables.



A6 for adjusting the contrast

The contrast of the display can be changed via potentiometer. The contrast is optimally pre-set for operation in most environments at the factory. Changes should be made only for extreme conditions.

Mounting and wiring

General description

The device may only be installed in the flush-type box that is supplied. For the cable entry into the flush-type box, the bus cable must be inserted into the bottom left opening (B3) and the power supply cable must be inserted into the opening on the right-hand side (B2). The bus and power supply cable may not be fed through an opening together into the flush-type box. Within the box, the cable should be led so that a minimum distance of 10mm is guaranteed between the bus and the power supply cable.

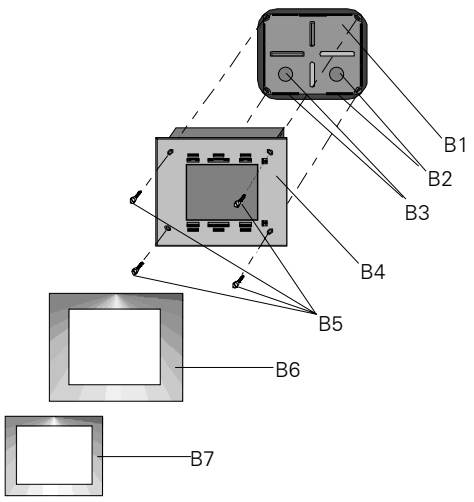


Diagram 3: Installation of the touch panel

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B1 Flush-type box
B2 Opening for power supply cable
B3 Opening for bus cable
B4 Touch panel
B5 Fixing screws
B6 Design frame
B7 All-purpose cover

Connecting the bus cable (Diagram 3 "A")
- The bus terminal (C3) is suitable for solid conductors with 0.6 ... 0.8mm Ø.
- Remove approx. 3 cm of the insulation of the bus cables.
- Strip approx. 5mm of insulation from the conductors (C3.4) and place in the terminal (C3) (red = +, grey = -).

Clipping on the bus terminal
- Place the bus terminal in the guide slot and press the terminal (C3) downwards until it reaches the stop.

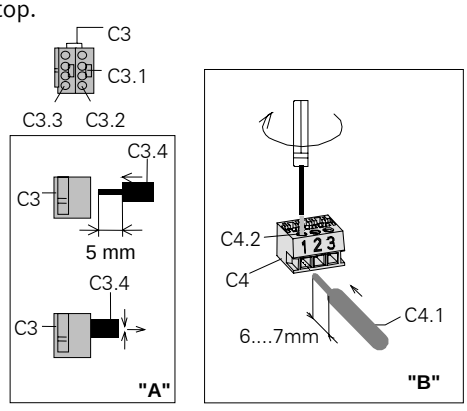

Diagram 4: Connections

Connecting the power supply terminal (Diagram 3 "B")
- Strip 6...7mm of insulation from the conductors (C4.1), clip on the power supply terminals (C4) and tighten the screws (C4.2).

Terminal assignment:

	230V	24V
1 ⏚	Earth	In1: +/- DC: AC
2 N	Neutral conductor	not connected
3 L	Phase	In2: +/- DC: AC

After connecting the bus terminal and the power supply terminal to the cables, the terminals are inserted in the corresponding openings on the touch panel. Once the bus voltage has been applied, the learning button can be pressed and the physical device address can be programmed. The LED should be extinguished when the physical address has been programmed.
The device is then screwed into the box using the four screws supplied (see Diagram 2).
The protective foil that is attached to the surface of the display may now be removed. No sharp objects or tools should be used to do so.
After screwing the device into position and removing the protective foil, the required design cover can be inserted in the display frame. Finally, the all-purpose cover is placed onto the display and latched in place, thereby holding the design cover in position.

Caution: Do not exert direct pressure on the display! There is a risk of the glass breaking!

Once the installation is completed, the power supply voltage can be connected to the supply and the device can be put into operation (see the application program description for information about programming).

Dismantling

- First disconnect the power supply voltage from the supply.
- The all-purpose cover must first be removed when dismantling the device or replacing the design frame. The cover can be released at the openings provided (D1) at the bottom using the dismantling tool provided or a plastic screwdriver.

Caution: When releasing the cover, only slight pressure may be exerted on the display. Do not damage the surface of the display with the dismantling tool!

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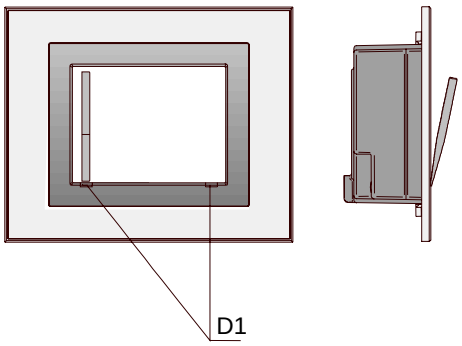


Once the all-purpose cover has been removed, the design frame can be detached and fully dismantled by loosening the fixing screw B5.

Disconnecting the power supply terminal (Diagram 3 "B")
- To disconnect the power supply terminal C4, it must first be pulled downwards out of the terminal compartment A1 via the latching mechanism A5. This can be made easier by lifting the power supply terminal C4 slightly using a narrow slotted screwdriver. It is inserted in the centre of the latching mechanism A5 between the power supply terminal C4 and the base of the terminal compartment.

Removing the bus terminal (Diagram "A")
- The bus terminal (C3) is located in the left terminal compartment. It consists of two sections (C3.2 and C3.3), each with four terminal contacts. Care should be taken not to damage the two test sockets (C3.1) either by accidentally connecting them to the bus conductor or with the screwdriver [when trying to remove the bus terminal].
- Carefully insert the screwdriver in the wire entry slot of the grey section of the bus terminal (C3.3) and pull the bus terminal (C3) out of the built-in device. When the red section of the bus terminal is removed, the grey section remains connected.

Caution: Do not remove the bus terminal from underneath! There is a risk of shorting the device!

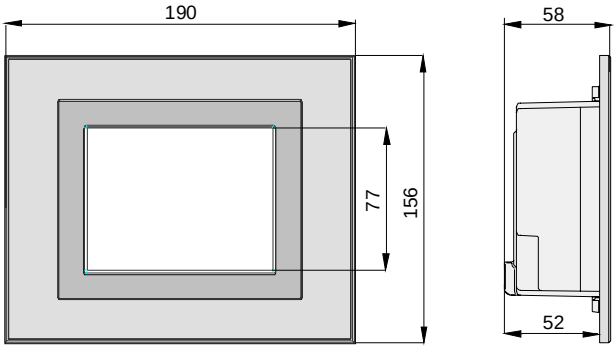
Disconnecting the bus terminal (Diagram 3 "A")
Remove the bus terminal (C3) and the conductor (C3.4) of the bus cable by rotating them simultaneously backwards and forwards.

Care instructions

The design frame and the plastic surface of the display unit can be cleaning using conventional, solvent-free cleaning materials. The surface of the display itself may only be cleaned with a damp, soft cloth (e.g. cloth used for cleaning a pair of glasses) and if necessary a mild cleaning agent that is suitable for use on glass.

Dimension Diagram

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
🖷 +49 (0) 180 50 50-223
❒ www.siemens.de/automation/support-request

instabus EIB

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