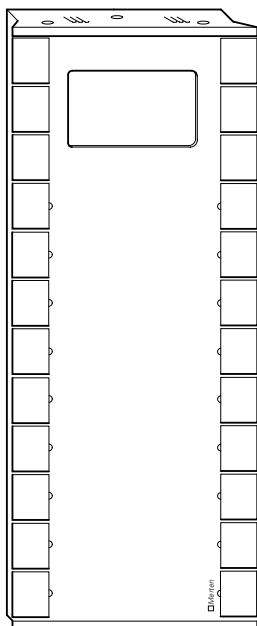


PLANTEC with 18 function keys and display

Colour **Article no.**
aluminium 623024

Accessories**Article no. Designation**

623090	Protection against dismantling for surface-mounted PLANTEC devices
623098	PLANTEC flush mounting box for PLANTEC with 18 function keys and display (art. no. 623024)
623093	PLANTEC labelling sheets for PLANTEC with 18 function keys and display (art. no. 623014) (1 sheet for 2 devices)
623096	PLANTEC design frame

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1. Function

Convenient control and display unit with integrated bus coupler.

Depending on the programming, either scenes or individual functions (lighting, blinds, ventilation or heating) can be retrieved via 18 function keys. Moreover, functions which cannot be operated via the function keys can be controlled via menus on the display. Message text and actuator designations can be programmed as desired. The user can change scene settings at any time without software. The scenes can be activated using extension objects. The display lighting can be configured. Incoming information is shown on the display. Die Spannungsversorgung des Gerätes ist auch mit DC 12 V möglich. In order to guarantee the power supply of the device in the event of mains voltage failure, PLANTEC can also be supplied with DC 12 V.

Functions

Storing of max.8 scenes

Control of up to

- 10 groups of lamps (switching/dimming/value)
- 6 groups of blinds (up/down/step/position)
- 3 ventilation groups (switching/dimming/value)
- 3 operating states of room thermostats (night/comfort/standby)

Display of

- max. 20 text elements, can be controlled via 10 objects
- Date, time (if time generator present on the bus)

2. Installation

In the case of devices with a display, the bus coupler and the supply for the display are located on the rear of the device. For operation, a 230 V (supply from above) or 12 V auxiliary voltage (supply from underneath) and the INSTABUS (supply from underneath) are required in a flush-mounted double box. A safety clearance of at least 4 mm must be maintained between the 230 V low voltage cables and the bus cable or 12 V (SELV) cables. The opposite cable entry openings of the installation box must be used. The sheath of the bus cable must be cut back as short as possible at the bus terminal. The PLANTEC insert itself serves as a separating web.



Caution!

The DC 12 V auxiliary voltage must meet the conditions for safety extra-low voltage SELV!

The bus connection is carried out via the bus connecting terminal supplied with the device. A maximum of 4 core pairs can be connected to the bus connecting terminal.

The cables to the 230 V mains voltage or 12 V back-up supply are connected via plug-in terminals with screw connection. The cables of 0.2 to 2.5 mm² can be screwed onto the plug-in terminal prior to installing the device and then inserted at a later date.

Installation

The supporting plate included with supply is screwed onto a flush-mounted double box.



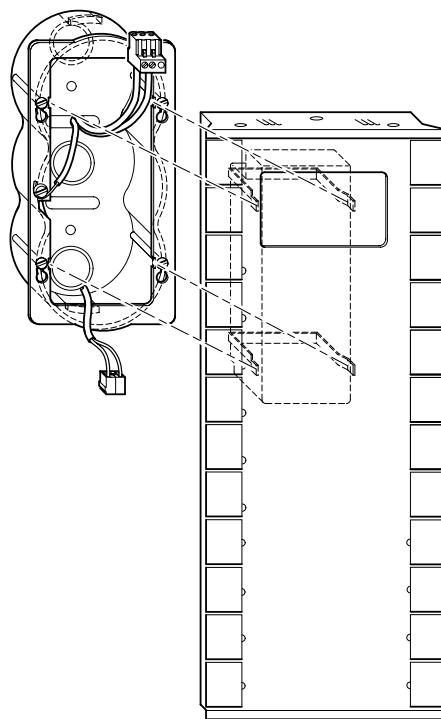
Caution:

The supporting plate must be earthed via the screw!

After connecting the plugs, the PLANTEC device is snapped onto the supporting plate.

For surface mounting on solid walls, the Merten double mounting box, art. no. 528668 must be used while the "Kaiser" junction box, art. no. 906202 must be used for surface mounting on cavity walls.

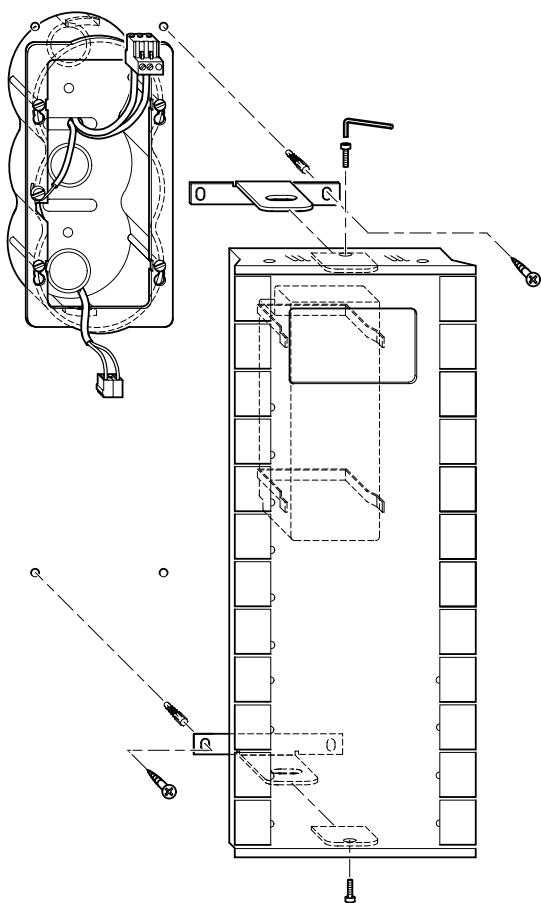
The insertion of the flush-mounted double box must be carried out at right angles.



Installation of 623024

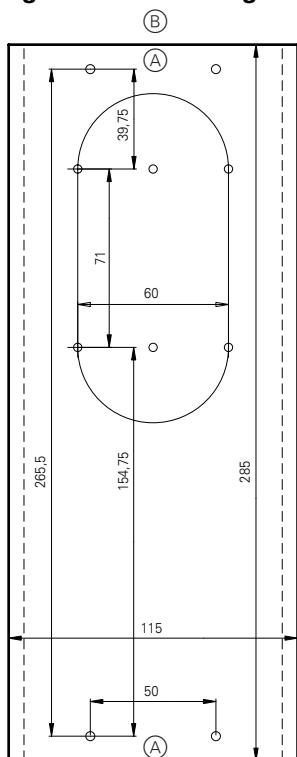
Protection against dismantling for PLANTEC devices (art. no. 623090) is available as an accessory for surface mounting. A hole template is included in the packaging.

Surface mounting with protection against dismantling is shown in the following diagram.



Installation of 623024 with protection against dismantling 623090

Dimensions and bore dimensions for protection against dismantling



(A) Protection against dismantling for PLANTEC with 18 function keys and display (art. no. 623024)

(B) Top

Flush mounting with mounting box

For flush mounting, the flush mounting box (art. no. 623098), which is available as an accessory, must be used. The supporting plate included with the PLANTEC device is **not** used when installing with the mounting box.



Caution!

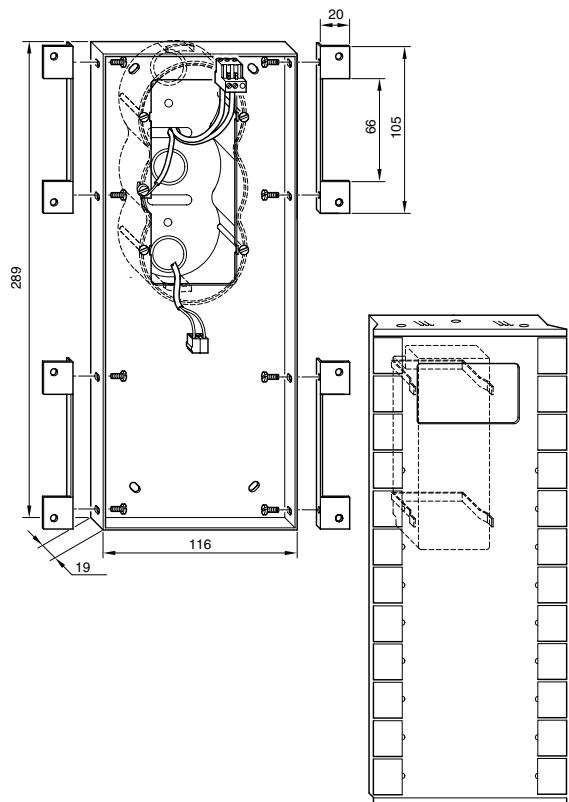
The mounting box must be earthed via the screw!

Flush mounting for solid walls

During installation, the flush mounting box with an integrated double box must be inserted at right angles and be flush with the plaster surface.

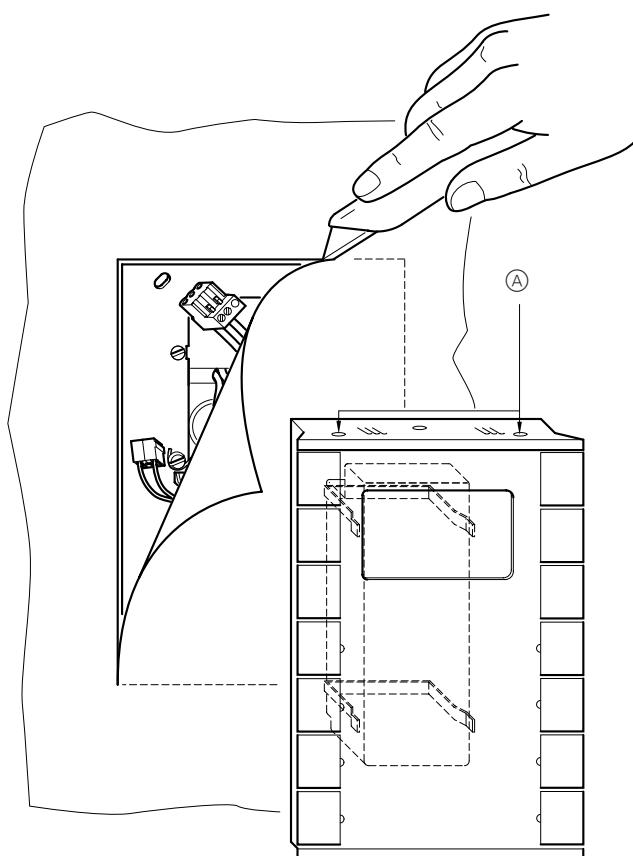
Flush mounting for cavity walls

For cavity wall installation in double-board walls, the flush mounting box must be installed so that it is flush with the wallpaper. The front board should be cut so that the flush mounting box fits inside together with the mounting brackets. The rear board however is cut so that the flush mounting box fits without a mounting bracket. The fixing brackets are then screwed onto the rear board from the front and then filled. The mounting brackets are height-adjustable and can also be rotated by 180° and then screwed on so that the depth can be adapted accordingly.



Flush mounting of 623024 with mounting box 623098

A design frame (art. no. 623096) is available as an accessory for flush mounting. The design frame is fixed to the flush mounting box together with the PLANTEC device.



(A) Remove these screws to replace the labelling foil
The mounting boxes should be papered over and the wallpaper on the inner edge of the flush mounting box should be cut with a sharp knife.

Labelling

Appropriate laser-printed labelling sheets (art. no. 623093) are available for the PLANTEC devices for labelling individually with text, logos or symbols. These sheets can be professionally labelled using the Merten labelling software (art. no. 615022). To replace the foils, the **upper** front plate must be removed using the key for hexagonal screws which is included with supply. The two outer screws should be unscrewed by approx. 3 mm but not removed. The glass panel can be carefully taken out from the front by lifting the front plate.



There are two springs located under the face plate which may be lost when the face plate is removed.

When inserting the foil, ensure that cleanliness is maintained by only holding the glass at the sides. Fingerprints and dust on the rear of the glass or foil otherwise remain visible.

3. Technical Data

External auxiliary supply:	AC 230 V/1.5 VA 4 kV insulation voltage between bus and 230 V DC 12 V (SELV) / 100-200 mA
Bus voltage:	DC 24 V, approx. 5 mA
Operating elements:	18 function keys 6 menu buttons 1 programming button
Displays:	LCD dot matrix 64x128, 7 lines, each with 21 characters Programming LED, red status LEDs Illuminated display
Connections	
Bus:	Bus connecting terminal
Auxiliary voltage:	2 screw terminals for max. 2.5 mm ²
DC 12 V:	3 screw terminals
Ambient temperature	
Operation:	-5 °C to +45 °C
Storage:	-25 °C to +55 °C
Transport:	-25 °C to +70 °C
Max. humidity:	93 %, no moisture condensation
EC guidelines:	low voltage guideline 73/23/EEC; EMC guideline 89/336/EEC
Dimensions:	Surface mounting: 285x115x23 mm (HxWxD) Mounting depth in flush-mounted double box: 31 mm
Type of protection:	IP 20

4. Settings in the EIB Tool Software (ETS)

**Note:**

Only the physical address is assigned with ETS. To do so, you can use the PLANTEC device below or a dummy device that is located in the same place. The programming is carried out with the PLANTEC Tool Software (PTS). You can find the PTS on the Merten home page and on the Merten info CD.

After carrying out the project design with the PTS, the group addresses used should be entered in the dummy application so that the ETS can calculate the filter tables correctly (only necessary when using line couplers).

If an application program has been loaded with ETS into PLANTEC by mistake, the device can be reset with the help of reset software.

Selection in the product database

Manufacturer:	Merten
Product family:	1.7 PLANTEC
Product type:	1.702 With function keys and display
Media type:	Twisted Pair
Product name:	PLANTEC with 18 function keys and display
Order number:	623024

5. Application overview

**Note:**

The programming is carried out with the PLANTEC Tool Software PTS (art. no. 615038). If you have any queries, please contact the Merten info line.