

Operating and installation instructions

Product	DELTA i-system		DELTA profil		DELTA ambiente		DELTA style	
Temperature controller	titanium white	5WG1 237-2AB11	pearl grey	5WG1 252-2AB03	arctic white	5WG1 253-2AB03	titanium white / metallic silver	5WG1 254-2AB13
	carbon metallic	5WG1 237-2AB21	titanium white	5WG1 252-2AB13	cosmos grey	5WG1 253-2AB13	basalt black / metallic silver	5WG1 254-2AB23
	aluminium metallic	5WG1 237-2AB31	anthracite	5WG1 252-2AB23	royal blue	5WG1 253-2AB23		
			silver	5WG1 252-2AB73				
DELTA frames	ordered separately from the DELTA ranges							
	cut-out frames							
Bus couplers	UP 110; UP 114; UP 115							

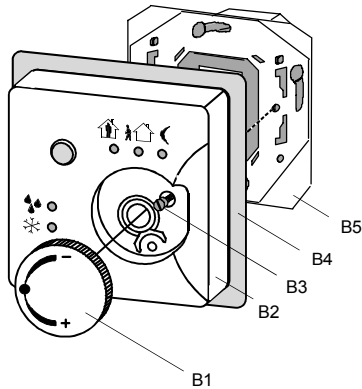


Diagram 1: Installation of the temperature controller

Product and functional description

The temperature controller can be used both as a two-step controller (thermostat) or as a continuous controller (P, PI controller) both for pure heating or cooling mode and for combined heating and cooling operation.

The associated application program compares the actual temperature measured by the temperature controller with the required setpoint temperature and calculates the relevant control variable. This control variable is then either transmitted as a switching command (ON/OFF) to switching actuators (such as the binary output UP 562) to control electrothermal valve drives in two-step control or as a positioning command (0... 100 %) for controlling a motor-driven valve drive in continuous control.

The clear and self-explanatory operator interface contains 5 LEDs for displaying the current operating state, a presence button for toggling between comfort and standby mode and vice versa as well as a rotary button for adjusting the basic setpoint.

The temperature controller is placed on the flush-mounted bus coupler together with the relevant DELTA frame and is only able to function in connection with the bus coupler and the associated application program.

The flush-mounted bus coupler and the appropriate frames are not included with supply and must be ordered separately.

Using the ETS program (EIB Tool Software), the application programs can be selected and the specific parameters and addresses can be assigned.

Additional Informations

<http://www.siemens.de/gamma>

Technical data

Power supply

Via the flush-mounted bus coupler

Temperature measurement

- Measuring range: 0 ... + 40 °C
- Resolution: 0.08 K
- Accuracy of the sensor temperature:
± 1.0 K under reference conditions,
± 2.0 K under ambient conditions and in measuring range

Connections

10-pole plug connector (PEI): for connection to the flush-mounted bus coupler

- B1 Rotary button *
- B2 Temperature controller *
- B3 Fixing screw *
- B4 Frame
- B5 Bus coupler UP
- *) Included with supply

Mechanical data

- Dimensions:
 - Temperature controller UP 237:
(L x W x D): 55 x 55 x 16 mm (without spring)
 - Temperature controller UP 252, UP 253:
(L x W x D): 65 x 65 x 16 mm (without spring)
 - Temperature controller UP 254
(L x W x D): 68 x 68 x 16 mm (without spring)
- Weight: approx. 30 g

Electrical safety

- Type of protection (according to EN 60529): IP 20

Ambient conditions

- Ambient operating temperature: - 5 ... + 45 °C
- Storage temperature: - 25 ... + 70 °C
- Relative humidity (not condensing): 5 % up to 93 %

Location and function of the operating and display elements

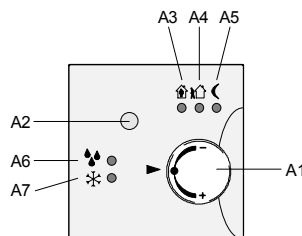


Diagram 2: Location of the operating and display elements

- A1 Rotary button for manual setpoint adjustment (control range dependent on the parameter setting)
- A2 Presence button for toggling between comfort and standby mode and vice versa
- A3 Comfort mode, display is green; lights up if the operating mode is active
- A4 Standby mode, display is green; lights up if the operating mode is active
- A5 Night reduction, display is green; lights up if the operating mode is active
- A6 Dew point alarm, display is yellow; lights up if the operating mode is active
- A7 Frost/heat protection mode, display is red; lights up if the operating mode is active

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 together with 230 V devices in the same box.
- The device may be used in switch-sockets if VDE approved devices are used.
- The prevailing safety and accident regulations should 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.

Mounting and wiring

General description

The temperature controller is placed and screwed in position on the flush-mounted bus coupler together with the relevant DELTA frame.

Notes regarding diagram 3:

- The flush-mounted bus coupler (B5) is connected in the flush-type box and fixed in position (see installation instructions for the flush-mounted bus coupler)
- Remove the rotary button (B1) from the device (B2)
- Place device with frame (B4) onto the flush-mounted bus coupler and fix in place with the screw (B3)
- Clip the rotary button (B1) on again

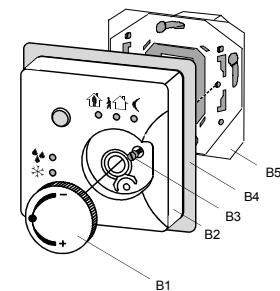


Diagram 3: Installing the temperature controller

- B1 Rotary button
- B2 Device
- B3 Fixing screw
- B4 Frame
- B5 Flush-mounted bus coupler

Dismantling

- Remove the rotary button (B1)
- Loosen the screw (B3)
- Remove the device together with the frame
- Remove the flush-mounted bus coupler (B5) in accordance with the instructions for dismantling

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:

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