SIEMENS

Technical Specification Sheet
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GAMMA

Temperature Controller UP 252

Description

The Temperature Controller UP 252 can be used as either a two-step controller (thermostat) or as a continuous controller (P, PI controller) for pure heating or pure cooling mode or for combined heating and cooling operation.

The application program compares the actual temperature measured by the Temperature Controller UP 252 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 switch actuators (such as the Switching/Dimming Actuator N 526E02) to control electro-thermal valve drives in two-step control, or as a positioning command (0 to 100 %) for controlling a motor-driven valve drive in continuous control.

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

The Temperature Controller UP 252 and a DELTA frame are mounted together on a BCU. The Temperature Controller UP 252 can only function in combination with a Bus Coupling Unit UP 110/03 that contains an application program. That is, the final installation consists of the hardware (Temperature Controller UP 252 with Bus Coupling Unit UP 110/03) and the application program (software).

Bus Coupling Unit UP 110/03 and the frame are not supplied with the device and must be ordered separately.

Using ETS (Engineering Tool Software), the application program is selected, its parameters and addresses are assigned, and the program is downloaded to the Temperature Controller UP 252.

Application Program

11 S1 Temperature Control 210B04

- Heating, cooling, and mixed heating and cooling modes with direct action or reverse action.
- Setpoint is adjustable through a parameter setting and/or through the bus.
- Parameters for setpoints, convenience temperature adjustments, measured ambient temperature, and control type are available.
- Convenience/standby modes can be selected using the device's push button and/or through the bus.
- Off-peak reduction, frost/heat protection, and dew-point alarm modes can be set or activated through the bus.
- Setpoint, actual temperature, and operating state (controller state) can be read through the bus.
- Switching between heating and cooling modes provided.

Specifications

Power Supply	Bus voltage: provided through the Bus Coupling Unit (BCU) UP 110/03
Temperature Measurement	• Measuring range: 32°F to 104°F (0 to +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
Control Elements	• One rotary button for manual adjustment of the setpoint (control range dependent on the parameter setting) • One presence button for toggling between comfort and standby mode
Display Elements	• Three green LEDs for the current operating mode (comfort, standby, night reduction) • One red LED for frost/heat protection • One yellow LED for dew point alarm
Connections	10-pole Physical External Interface (PEI) plug: for connection to the BCU UP 110/03.
Physical Specifications	Housing: plastic Dimensions (L × W × D): 2.56" × 2.56" × 0.63" (65 × 65 × 16 mm) (without spring) Weight: Approximately 1.1 oz (30 g) Installation: Placed onto the Bus Coupling Unit (BCU) UP 110/03 and screwed in position
Electromagnetic Compatibility	Complies with EN 50081-1, EN 61000-6-2 and EN 50090-2-2
Environmental Conditions	Ambient operating temperature: 23°F to 113°F (-5°C to 45°C) Storage temperature: -13°F to 158°F (-25°C to 70°C) Relative humidity (non-condensing): 5% to 93%
Certification	KNX/EIB certificate
CE marking	Complies with the EMC regulations (residential and commercial/industrial buildings), and low voltage regulations

Ordering Information

Part Number	Description
5WG12522AB13	Room Temp Controller, Profil, White

Accessories

5WG1102CB03	Bus Coupling Unit (BCU1) UP 110/03
5WG12408CB11	Frame, DELTA profil, 2 × 4 Wall, 10-pack

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