

Temperature-Controller RE21S

Temperature Controller PCE-RE21S

Temperature controller with high-contrast LCD / Panel mounting / 1 control output / 1 alarm output / For PT100 and thermocouples

The temperature controller is used wherever temperatures need to be controlled. The temperature controller is mounted in the control panel. Pt100 and K, E, J and N thermocouples are connected to the temperature controller. The measuring range depends on the sensor and can be set via the buttons on the temperature controller. The control is carried out with the temperature controller via On / Off or PID control. The controller has a self-optimization that prevents an overshoot of the process value.

The settings for this are also carried out using the buttons on the temperature controller. All important data is displayed on the LCD display of the temperature controller. The display of the temperature controller is a high-contrast display, which can be read perfectly even under bad conditions. In addition to a control output, the temperature controller has an additional alarm relay which closes a potential-free contact when the measured values are above or below the measured values.

- PID or on / off control self-tuning
- PID self-optimization
- Front panel mounting
- PT100 and thermocouples connectable
- 1 alarm relay
- Display of setpoint and actual value
- 1 control output (depending on version)
- High contrast LCD display

Specifications:

Entrance	PT100 (-200 ... 600°C / -328 ... 1112°F) Thermocouple type K (-50 ... 1300°C / -58 ... 2372°F) Thermocouple type E (0 ... 800°C / 32 ... 1472°F) Thermocouple type J (0 ... 1000°C / 1832°F) Thermocouple type N (0 ... 1300°C / 32 ... 2372°F)
Measurement accuracy	± 0.3% of v. Mb. + 1 digit
Measuring time	0.5 seconds
Control behavior	On / off control, PID with self-optimization
Display	High contrast LCD display
Representable units	°C / °F
Outputs	SSR: 12V DC / 50-mA
Rule types	On-off control Fuzzy PID control
Operating conditions	0 ... 60°C / 32 ... 140°F, max. 90% rh
Dimensions	48 x 48 x 86 mm / 1.9 x 1.9 x 3.4 in
Assembly	45 x 45 mm / 1.8 x 1.8 in panel cutout

Voltage supply	100 ... 240V AC / DC @ 50/60 Hz
Input	< 5.2 VA
Weight	About 150 g / < 1 lb

Delivery scope:

- 1 x Temperature controller PCE-RE21S
- 1 x Seal
- 1 x Mounting device
- 1 x Protective cover
- 1 x User manual