

Process Controller PCE-RE72



**Universal PID controller for temperature or process signals / two LED displays /
two outputs / softstart function / program-controlled control possible**

The temperature controller PCE-RE72 is a compact PID controller which can be used in a wide range of applications. On the input side, this temperature controller PCE-RE72 processes the widely used process signals 4 ... 20mA and 0 ... 10V as well as resistance sensors and thermocouples. The temperature controller can be used very flexibly, since different operating modes are available. Besides the simple on / off control with adjustable hysteresis, the digital controller also offers various combinations of the PID control. Thanks to the SMART PID control, this temperature controller achieves the setpoint value very quickly and with a slight overshoot. In addition, a jog-like control can be prevented with the aid of the soft-start function, while manual control of the control process is possible in manual mode. In order to implement a program-controlled control, programs with up to 15 segments each can be stored in the temperature controller. The temperature controller PCE-RE72 can also be equipped with a digital input as well as with analogue control outputs and also has an RS485 interface. The current measured value and the setpoint are displayed via two 4-digit LED displays. The temperature controller is configured via 3 keys on the front panel. It is also possible to have the optimum process parameters automatically determined by the temperature controller via the auto-tuning function. The protection class IP65 (only the front) allows it to be used in harsh industrial environments. The temperature controller PCE-RE72 can also be equipped with a digital input as well as with analogue control outputs and also has an RS485 interface. The current measured value and the setpoint are displayed via two 4-digit LED displays. The temperature controller is configured via 3 keys on the front panel.

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- ▶ Two 4-digit LED displays
- ▶ Two output relays
- ▶ Front protected to IP65
- ▶ Analogue universal input
- ▶ With SMART PID control
- ▶ Softstart function and manual operation
- ▶ Connection via screw terminals
- ▶ 15 programs can be stored

Subject to change

Specifications

	PT100 (2-wire or 3-wire) PT1000
entrance	Thermocouple Type: J, T, K, S, R, B, E, N, L 0/4 ... 20 mA 0 ... 5/10 V
Measuring time	0.2 s
accuracy	Process signals: 0.2% + 1 dgt. PT100 / 1000: 0.2% Thermocouples: 0.3% (0.5% B, R, S)
Outputs	relay SSR 0/5 V Analogous
Digital interface	RS485 interface, Modbus RTU
Control behavior	P, PD, PI, PID, on / off control with hysteresis
display	Two 4-digit LED indicators
Ambient temperature	Operation: 0 ... 50 °C / 32 ... 122 °F Stock: -20 ... 70 °C / -4 ... 158 °F
Humidity	<85% rh (non-condensing)
Dimensions	48 x 48 x 93 mm / 1.8 x 1.8 x 3.6 in
Control panel cutout	45 x 45 mm / 1.7 x 1.7 in
Supply voltage	(See available variants)
Power consumption	<8 VA
Protection class	Front: IP 65 Rear: IP 20
mass	About 200 g
Assembly	Mounting clips with clamping screws, Connection via terminal block
Standards	EN 61010-1 CAT III EN 61000-6-2 EN 61000-6-4

More information

More product info



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