

TEMPERATURE CONTROLLER PT-801

PT-801 temperature controller is one of the devices of new generation presenting wide range of use. It is designed to make internal and external temperature measurements in liquids, semi-solids and the air.

PT-801 is a stationary device in housing resistant to humidity (IP-65).

The device is equipped with a large, backlit, graphic display, showing the temperature readout and the status of each relay simultaneously. The device cooperates with Pt-1000 resistor temperature sensor. The signal from the sensor is amplified with use of pre-amplifier. Thanks to the modern electronic components the controller's memory has become fully independent from the power supply. It is equipped with a collective optical signalisation of the correct work and the progress of the controlling process.

The controller is powered with standard 230 V voltage, which is galvanically isolated from the input clamps. It is possible to use different power supply voltage: 110/230/24V AC, 12 – 24V DC. The device signalises low power supply level.

Outputs:

relays (alarm or PID regulation);

isolated digital: RS-485, MODBUS (ASCII and RTU);

isolated current outputs: 0 - 20 or 4 - 20 mA.

In case of using the relays and exceeding the entered lower or upper limits, the proper relay is switched (minimum and maximum alarm), otherwise the duty cycle coefficient or frequency is changed (for the PID regulator).

The meter is equipped with real time clock with date.

It is possible to connect to the remote panel (keyboard with display), which enables to control the device from up to 1 km distance.



In the picture: CP-801, identical to PT-801.

There is a possibility of the data radio transmission from the measuring head to the controller.

24 months of warranty, quick warranty and after warranty service.

CE Certificate.

TECHNICAL DATA

Measured value	Temperature (°C)
Range	-50 to 300 °C
Resolution	0.1 °C
Accuracy n the range 0 ÷ 100 °C*	± 1°C (with Pt-1000B)*
The relays parameters	2A/250VAC/30VDC, PID controlling
Measurement input	isolated
Temperature datalogger output	isolated, 0 ÷ 20 mA or 4 ÷ 20 mA
RS485 output	isolated
Maximal RS connection length	1000 m
Maximal cable length between preamplifier and controller	200 m
Power	240 V 50Hz, for a special order 170VAC÷250VAC, 24VDC/24 VAC
Isolation class	PN-83/T-06500
Radio-electric interference	N level
Dimensions	215 x 215 x 95 mm
Weight of controller / preamplifier	1350 g / 150 g
Ambient temperature	-25 ÷ 40 °C
Atmospheric humidity / pressure	max. 80% / 80 - 110 kPa
Atmospheric aggressivity level	N/2/AG-U/C

ELMEIRON[®] Sp. j.

41-814 Zabrze, Witosa 10 POLAND

tel. +48 32 / 2738106

www.elmetron.pl e-mail: info@elmetron.com.pl