

PT05, PTP05, PT20

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RESISTANCE THERMOMETERS – PIPE-CONTACT AND INDOOR

PT05 (PTP05)
pipe-contact



PT20
indoor



- unobtrusive indoors
- very low price

- easy installation
- output options: 4...20mA or 0-10V or RS485, ModBus RTU or ASCII protocol

Pipe-contact:

The device is designed to measure the surface temperature of pipes. The measuring part is a plastic moulding with an embedded copper plate. It is joined to a plastic connection head and fastened to the pipe with a cable tie. Two longitudinal ridges ensure optimum heat transfer from the pipe to the copper plate for pipes with a diameter from approx. 15mm. The plate temperature is measured by a miniature flat Pt100 sensor, insulated from the surroundings. Pt100/A or B, Pt1000 or Ni1000 sensors in 2-wire or 4-wire connection can be fitted. A dual sensor is available on request.

PT05 - indoor and outdoor use, IP65, -25...+120°C, without transmitter

PTP05 - indoor and outdoor use, IP65, fitted with a transmitter with 4...20mA or 0-10V or RS485 output as required

- any measuring range within -25...+120°C, min. span 20°C, **head temperature must not exceed +80°C**
- accuracy approx. $\pm 2.5^\circ\text{C}$ (depending on thermal contact of the sensor with the pipe)
- other parameters are given in the description of the transmitter used (PP200, PP300, PPL100).
- standard mounting strap for diameters 40-60mm
- stainless steel mounting strap for any pipe diameter at extra charge

Indoor:

PT20 - indoor version, IP30, -20...+60°C, without transmitter

- accuracy: according to the sensor used
- sensor: 1x Pt100A, B, Pt1000, Ni1000 (other sensors on request)

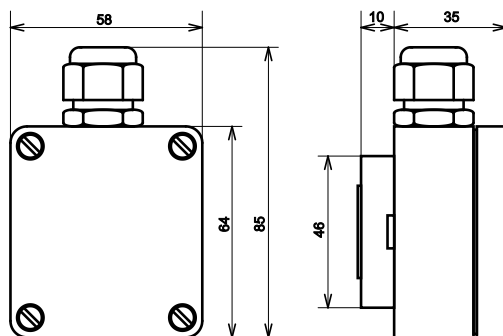
Type tests:

Basic type test: acc. to ČSN EN IEC 60751 ed.2
EMC: acc. to ČSN EN IEC 61326-1 ed.3
Safety: acc. to ČSN EN 61010-1 ed.2

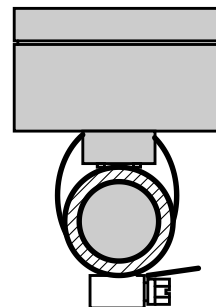
Terminals accept wires with a cross-section of max. 2.5mm².

Dimensions:

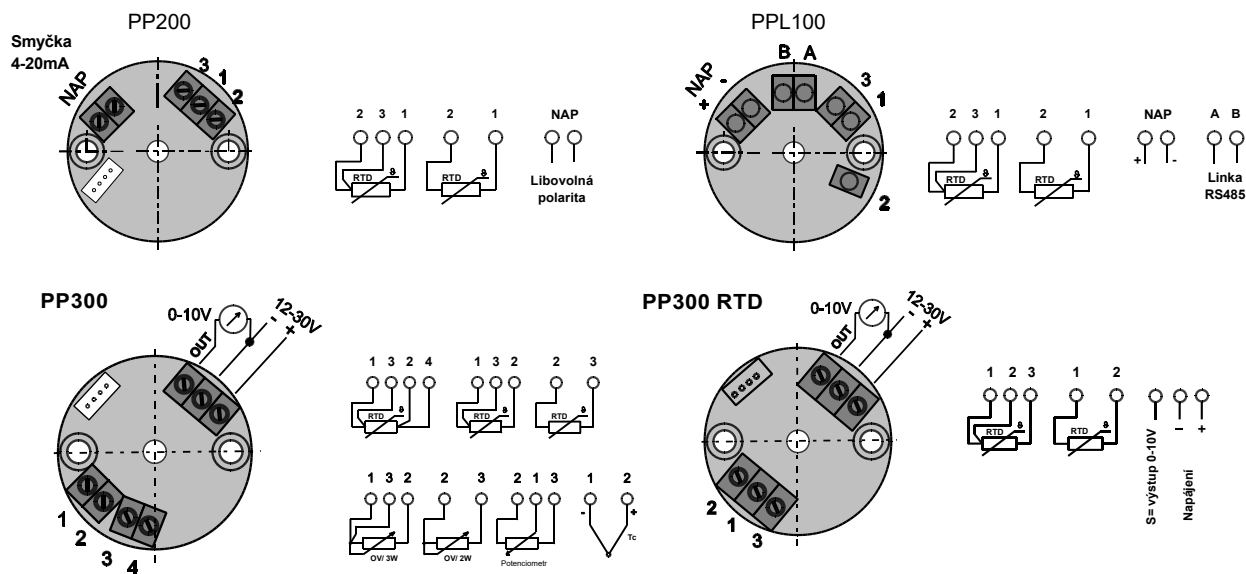
PT05 (PTP05):
pipe-contact



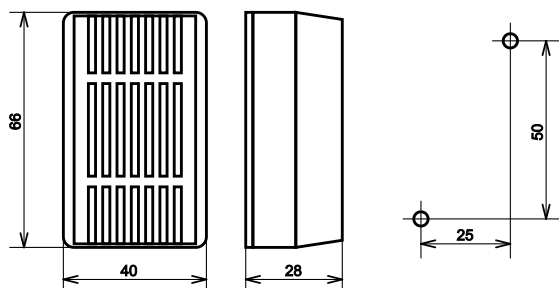
Mounting
example:



Wiring:



PT20:
Indoor



The order must specify:

- version without transmitter

- thermometer type
- Pt100 sensor accuracy A, B or other special requirements (4-wire connection, dual sensor...)
- quantity

- version with transmitter

- thermometer type
- measuring range [°C]
- output 4-20mA or 0-10V or RS485 + protocol
- quantity

Order examples:

PT20 Pt100/A	10pcs
PT05 Pt100/B	2pcs
PT05 Pt1000/B	3pcs for pipe diameter 150mm
PTP05 -20...+80°C /4-20mA	1pc
PTP05 -20...+120°C /MB	2pcs RS485, ModBus protocol

A calibration certificate can be issued for the thermometers.



At the end of its service life, dispose of the product via separate collection.
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