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CLAMP-ON RESISTANCE THERMOMETER WITH CABLE

Sensor with a permanently attached cable for measuring the surface temperature of pipes. The measuring part is a plastic moulding with an embedded copper plate. It is fastened to the pipe with a strap clamp, which is supplied. Two longitudinal ridges ensure optimal heat transfer from the pipe to the copper plate for pipes from approx. 15mm in diameter. The plate temperature is measured by a miniature flat Pt100 sensor insulated from the surroundings. Pt100/A or B, Pt1000 or Ni1000 in 2-wire or 4-wire connection can be fitted; dual sensor on request. Suitable for use under pipe insulation.

Technical parameters:

- Basic version: 46x10x30mm Pt100/B with 4w cable 1m -25...+120°C
 - accuracy approx. $\pm 2.5^\circ\text{C}$ (depending on sensor-to-pipe thermal contact)
 - standard mounting strap for pipe diameters 40-60mm
 - stainless steel mounting strap for any pipe diameter at extra charge
 - Temperature range:
 -30...+80°C with PVC cable
 -40...+120°C with MCBE-AFEP cables
 -60...+120°C with Teflon cables
 - Dielectric strength: 500V, insulation resistance min. 20M Ω (circuit to pipe)
 - Ingress protection: IP65 (for outdoor use)

Available sensing elements:

Pt100/A,B, PT1000/A,B, Ni1000/5000, Ni1000/6180, NTC, KTY, PTC, DALLAS, dual....

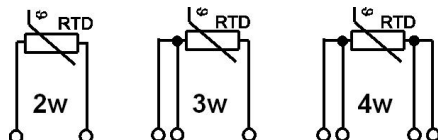
Type tests: Basic type test according to ČSN EN 60770-1 ed.2

Most frequently used cables :

- 2w cable 80°C: 2 conductors 0.34mm² PVC insulation, PVC sheath
- 3w cable 80°C: 3 conductors 0.25mm² PVC insulation, PVC sheath
- 4w cable 80°C: 4 conductors 0.25mm² PVC insulation, PVC sheath
- 4w cable 200°C: 4 conductors 0.09mm² Teflon, unshielded, Teflon sheath
- 2w cable 200°C: 2 conductors 0.22mm² Teflon, metal braid, Teflon sheath
- 4w cable 200°C: 4 conductors 0.22mm² Teflon, metal braid, Teflon sheath
- 2w cable 200°C: 2 conductors 0.22mm² Teflon, unshielded, silicone sheath
- 2w cable 200°C: 2 conductors 0.15mm² Teflon, metal braid, silicone sheath
- 3w cable 200°C: 3 conductors 0.15mm² Teflon, metal braid, silicone sheath
- 3w cable 200°C: 3 conductors 0.22mm² Teflon, metal braid, silicone sheath
- 4w cable 200°C: 4 conductors 0.22mm² Teflon, metal braid, silicone sheath

(outer Ø4.5mm)
 (outer Ø4mm)
 (outer Ø4.5mm)
 (outer Ø2.5mm)
 (outer Ø3.8mm)
 (outer Ø3.5mm)
 (outer Ø3.6mm)
 (outer Ø3mm)
 (outer Ø3.1mm)
 (outer Ø4.5mm)
 (outer Ø4.5mm)

Basic electrical connection :



Wiring :

- Single sensor, four-wire 80°C: white + yellow, brown + green
 Single sensor, three-wire 80°C: white, brown + green
 Single sensor, four-wire 200°C: black + white, red + blue (or red + red, white + white)
 Single sensor, three-wire 200°C: white, red + blue
 Dual sensor 80°C: white + yellow - sensor "A", brown + green - sensor "B"
 Dual sensor 200°C: black, white - sensor "A", red, blue - sensor "B" (or 2 x red - sensor "A", 2 x white - sensor "B")
 Single sensor, two-wire: two wires of different colours

Dimensions: 47 x 21 x 11mm

The order must specify:

- thermometer type PT04
- sensor accuracy Pt100 A, B or other requirements (dual sensor, other type...)
(default: Pt100/B)
- cable length and type (default: 1m shielded 4x0.22mm² Teflon / silicone)
- pipe diameter DN for a different strap size
- quantity (pcs)

Order examples: PT04 Pt100/A 1m 4w cable 200°C DN250 1pc
 PT04 Pt100/B 1m 4w cable 80°C 1pc
 PT04 Ni1000/6180 1m 4w cable 80°C DN150 1pc
 PT04 Pt1000/B 2m 3w cable 200°C 1pc

A calibration certificate can be ordered with the thermometers.

