



Description:

PT-01

Thermometer

Compact Resistance

A temperature-dependent electrical resistance is integrated in a stainless steel protection tube. It changes its ohmic resistance in relation to the temperature of the media. In the version with a built-in transmitter, the measured value will be converted into a 4. . .20 mA current signal and made available at the connections of the square-type plug point in 2-wire system. In the version without a transmitter, the plain resistance can be tapped at the plug point. the sensor element is designed in 2-, 3or 4-wire with a system in order to compensate for the measuring errors through the electrical leads.

/ Small design
/ Integrated transmitter

/ Power- or resistance output

/ Stainless steel

/ -200°C to +400°C

Application:

The PT-01 series of Compact Thermometers is unbeatable in their versatility. A choice of 2 shaft diameters, 5 different shaft lengths and various connecting threads allow the user to customize them practically in any location of measurement. In addition, the wide range of temperatures of -200...400°C contributes its part to the fact, that these sensors are used nearly in the entire industry with great success. From a temperature of 120°C upwards, the thermometers are provided with an additional neck tube that serves as a cooling section and protects the sensitive electronic components against overheating.



Temperature-Measurement and -monitoring

Versions:

PT-01 Compact Resistance Thermometer

Output: Resistance outputs PT100 2-, 3- or 4-wire without a transmitter are possible. With transmitter the device gives a

4...20 mA current signal in 2-wire circuit.

Process connection: $G\frac{1}{2}$ " B male, smooth shaft (others on request) **Shaft diameter:** Protective pipes with 6 mm or 8 mm are available.

Shaft length: Depends on the required depth.

Electrical Specifications:

Output / 4. . .20 mA, 2-wire or

1 x PT100, 2-, 3- or 4-wire

 Supply voltage /
 7.5...35 VDC

 max. Current /
 0.3...1.0 mA

Connection / angled plug from DIN EN 175301-803

A for 2-, 3- or 4-wire

Protection class / IP65 ENC60529

EMC / 2004/108/EG, EN 61326 emission

(Group 1 Class B) and immune to

interference (industrial)

Technical Specifications:

Accuracy / Transmitter: < 0.1% from the range

Class A for DIN EN 60751 \pm (0.15°C + 0.002°C x |t|) Class B for DIN EN 60751 \pm (0.3°C + 0.005°C x |t|)

Material / Stainless steel 1.4571

Process connection / G½"B (others on request)

Shaft diameter / 6 mm or 8 mm (others on request)

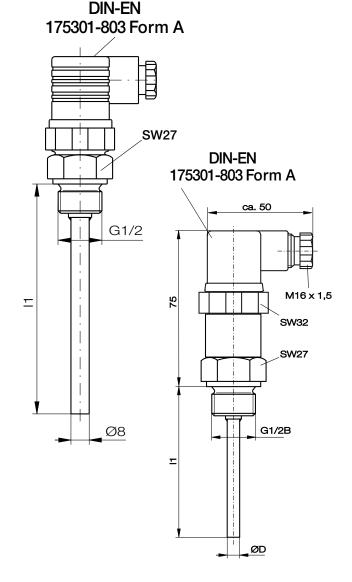
Shaft length / 50...2000 mm

Neck tube / $55 \pm 2 \text{ mm from } 120^{\circ}\text{C}$

Storage temp. / -40...85°C

Pressure / max. 25 bar

Dimensions in mm:



Ordering Codes:

