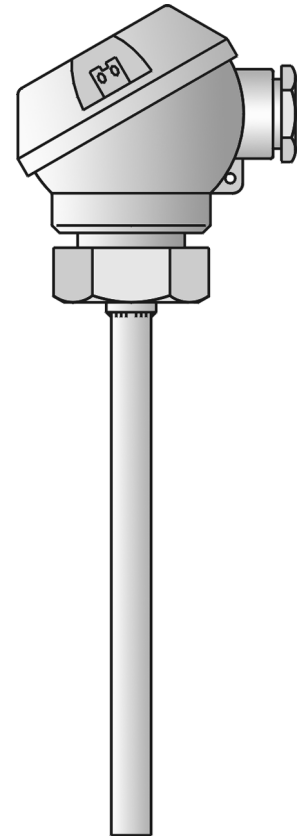


Push-in resistance thermometers with terminal head Form J

- for temperatures from -50 to +400°C
- as single or twin resistance thermometer
- available with transmitter

Push-in resistance thermometers are preferably used for measuring temperatures in liquids and gases. An important selection criterion is their reliable sealing against both positive and negative pressures. Applications include HVAC and refrigeration, as well as heating installations, ovens, furnaces and plant engineering.

The measuring insert is normally fitted with a Pt100 temperature sensor to EN 60 751, Class B in 2-wire circuit. Versions with Pt500 or Pt1000 are also available. There is a choice of 3-wire and 4-wire circuit connections. A transmitter can optionally be integrated into the terminal head.



Technical data

Terminal head

Form J, aluminium die-casting, Pg9, IP54, ambient temperature -20 to +100°C
Caution: reduced ambient temperature when using transmitters (see Data Sheet 90.2603)

Process connection

plate flange 6mm dia., 8mm dia., galvanized steel
screwed pipe joint 6mm dia., 8mm dia., stainless steel

Protection tube

stainless steel 1.4571, 6mm, 7mm and 8mm dia.

Measuring insert

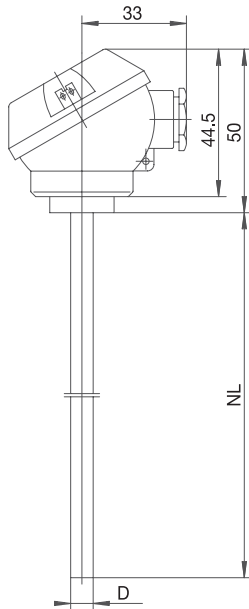
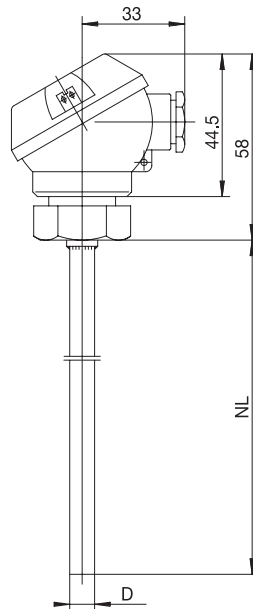
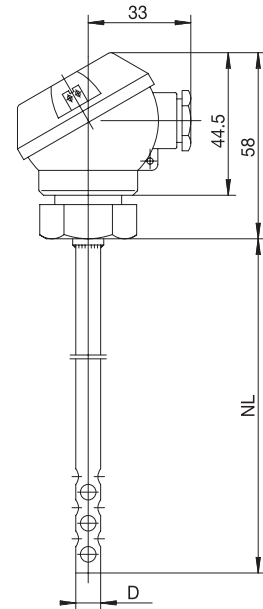
Pt100 temperature sensor, EN 60 751, Cl. B, 2-wire circuit

Transmitter

analog transmitter Type 902603/10, see Data Sheet 90.2603

Accessories

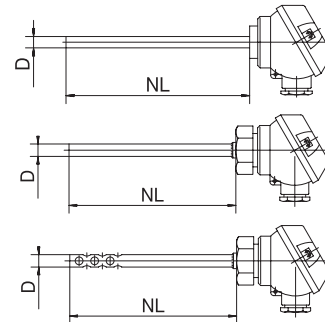
pocket, see Data Sheet 90.2440

Dimensions**Type 902103/10****Type 902103/20****Type 902103/30**

Order details: Push-in resistance thermometers with terminal head Form J

(1) Basic version

| | | |
|-------|--|--|
| | 902103/10 | Push-in resistance thermometer with continuous protection tube, ≤ 7mm dia. |
| | 902103/20 | Push-in resistance thermometer with stepped protection tube, > 7mm dia. |
| | 902103/30 | Push-in resistance thermometer with perforated protection tube |
| | (2) Operating temperature in °C | |
| x | 390 | -50 to +300°C |
| x x | 402 | -50 to +400°C |
| | (3) Measuring insert | |
| x x | 1001 | 1 x Pt100 in 3-wire circuit |
| x x x | 1003 | 1 x Pt100 in 2-wire circuit |
| x x | 1011 | 1 x Pt100 in 4-wire circuit |
| x x x | 2003 | 2 x Pt100 in 2-wire circuit |
| | (4) Tolerance class to EN 60 751 | |
| x x x | 1 | Class B (standard) |
| x x x | 2 | Class A |
| | (5) Protection tube diameter D in mm | |
| x | 6 | 6mm |
| x | 7 | 7mm |
| x x | 8 | 8mm |
| | (6) Nominal length NL in mm (50 ≤ NL ≤ 1000, NL ≥ 290 for Type 902103/30) | |
| x x | 50 | 50mm |
| x x | 100 | 100mm |
| x x | 150 | 150mm |
| x x | 250 | 250mm |
| x x | 290 | 290mm |
| x x x | ... | please specify in plain text (50mm steps) |
| | (7) Process connection | |
| x x x | 000 | no process connection |
| x | 252 | screwed pipe joint 1/4" (only for 6mm dia.) |
| x x x | 254 | screwed pipe joint 1/2" (only for 6mm or 8mm dia.) |
| x | 662 | stop flange 6mm dia. |
| x x | 667 | stop flange 8mm dia. |
| | (8) Extra codes | |
| x x x | 000 | no extra code |
| x x x | 330 | 1 x analog transmitter Type 902603/10 (please specify range in plain text) |



Order code (1) - (2) - (3) - (4) - (5) - (6) - (7) / (8)

Order example 902103/10 - 402 - 1001 - 1 - 6 - 50 - 000 / 000¹

1. List extra codes in sequence, separated by commas .

Stock versions:

(1) - (2) - (3) - (4) - (5) - (6) - (7) / (8) Sales No.

902103/30 - 390 - 1003 - 1 - 8 - 290 - 254 / 000 90/00055713