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## TEMPERATURE SENSORS TRPT



## TEMPERATURE SENSORS TRPT1

### DESCRIPTION

The ADCATrol TRPT1 is a series of Pt100 resistance temperature sensors specially designed for general industrial use. The sensing element is an RTD three wire device according to EN 60751 Class A. The sensor consists of a probe, a connection head and a measurement insert. The probe is made of austenitic stainless steel and the connection head is made of aluminium. The supply lines to the measurement insert are insulated from each other and from the probe tube with a ceramic insulator.

The sensor can be connected directly to a temperature indicator or controller that has a three wire Pt100 input.

### MAIN FEATURES

Head type B-KNE.  
Three wire sensing element.  
Fast response time.  
Easy to install.

OPTIONS: Transmitter assembly with 4 to 20 mA output.  
Sanitary version with clamped connection.  
Design for air temperature measurements.  
Special insertion lengths.  
ATEX approved version.  
Higher operating limits.

USE: Temperature measurement in pipelines and vessels.

### AVAILABLE

MODELS: TRPT1 – Pt100 sensor.  
TRPT1T – Pt100 sensor with analog transmitter.

SIZES: 1/2".

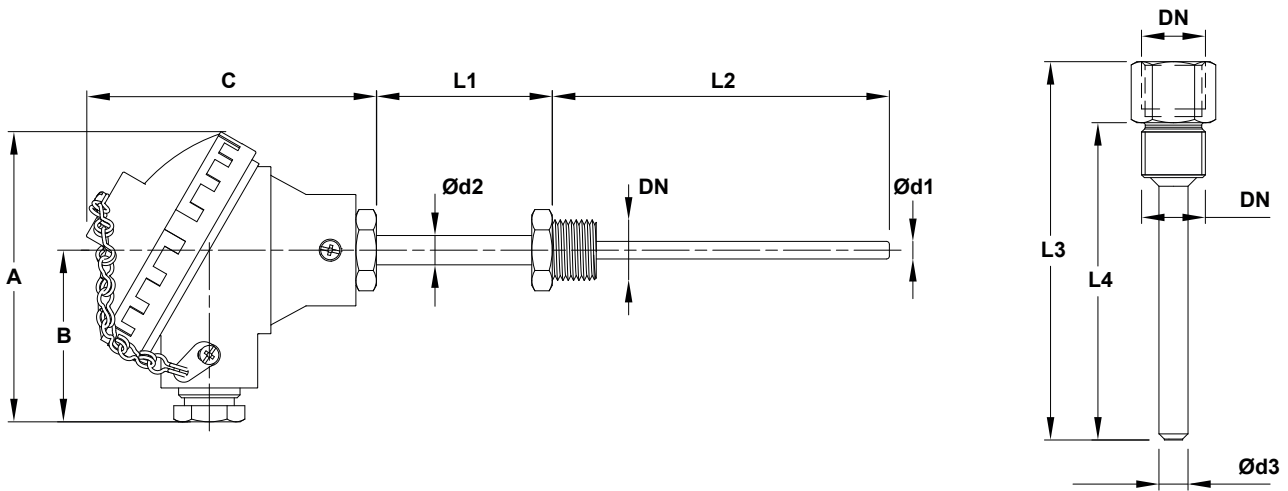
CONNECTIONS: Male threaded ISO 228 G.

INSTALLATION: In any position.  
See IMI – Installation and maintenance instructions.



| LIMITING CONDITIONS             |                   |
|---------------------------------|-------------------|
| Operating temperature (Class A) | -10 °C to 300 °C  |
| Max. operating conditions       | 36,5 bar @ 400 °C |
| Ambient temperature             | -20 °C to 80 °C   |

| TECHNICAL DATA                      |                                    |   |
|-------------------------------------|------------------------------------|---|
| MODEL                               | TRPT1                              | TRPT1T  |
| Enclosure/head                      | KNE                                | KNE   |
| IP rating                           | IP 66                              | IP 66   |
| Cable entry                         | M20 x 1,5                          | M20 x 1,5   |
| Temperature range                   | -10 to 300 °C (others on request)  | 0 to 200 °C (others programmable)                     |
| Output                              | 3 wire Pt100 to EN 60751 – Class A | 4 to 20 mA (loop powered)                             |
| Power supply                        | –                                  | 10 to 30 V DC   |
| Maximum loop resistance             | –                                  | 681 Ω at 24 V DC, 954 Ω at 30 V DC                    |
| Transmitter thermal drift deviation | –                                  | Input 0,06 °C / 10 °C<br>Output 0,02% of span / 10 °C |

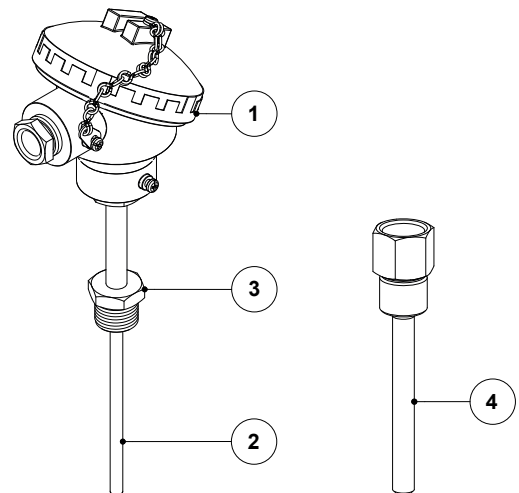


| DIMENSIONS (mm) |        |    |    |    |    |       |     |     |           |            |     |       |     |           |
|-----------------|--------|----|----|----|----|-------|-----|-----|-----------|------------|-----|-------|-----|-----------|
| MODEL*          | SENSOR |    |    |    |    |       |     |     |           | THERMOWELL |     |       |     |           |
|                 | DN     | A  | B  | C  | L1 | L2 ** | Ød1 | Ød2 | WGT. (kg) | DN         | L3  | L4 ** | Ød3 | WGT. (kg) |
| TRPT1 – 100     | 1/2"   | 99 | 59 | 99 | 60 | 115   | 6   | 10  | 0,47      | 1/2"       | 124 | 104   | 10  | 0,11      |
| TRPT1 – 150     | 1/2"   | 99 | 59 | 99 | 60 | 165   | 6   | 10  | 0,48      | 1/2"       | 174 | 154   | 10  | 0,13      |

\* TRPT1 and TRPT1T models share the same dimensions as the additional transmitter is placed inside the KNE enclosure/head.

\*\* Other insertion lengths on request.

| MATERIALS |                     |                    |
|-----------|---------------------|--------------------|
| POS. N°   | DESIGNATION         | MATERIAL           |
| 1         | Head                | Aluminium alloy    |
| 2         | Probe               | AISI 316L / 1.4404 |
| 3         | Process connection  | AISI 316 / 1.4401  |
| 4         | Thermowell (pocket) | AISI 316 / 1.4401  |



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