

## Pt1000TR050M/0, temperature probe, cable 5 m

code: SN272



Temperature probe with Pt1000 sensor.

The temperature sensors Pt1000TR050M are designed for measuring temperatures of gaseous and liquid substances.

The temperature range for application of the sensor is -50°C to +400 °C, the maximum temperature may be exceeded up to 450°C in a short time (relates to active measuring part of sensor which is determined by spacer ring).

Around the lead in cable with Teflon insulation must not be temperature higher than 260 °C.

They meet the ingress protection IP64 according to the EN 60 529 standard. The sensors are suitable for temperature measurement in chemically non-aggressive environments, the using must be chosen with regard to temperature and chemical resistant housing and a cable.

### Technical data

|                         |                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------|
| TEMPERATURE SENSOR      |                                                                                                                 |
| Measuring range         | -50 to +400 °C, short-term +450 °C, maximum temperature around the cable and above the clamping ring is +260 °C |
| Accuracy                | $\pm (0.15 + 0.002 t)$ at °C in range -50 to +250 °C<br><br>$\pm (0.3 + 0.005 t)$ at °C in range over +250 °C   |
| Accuracy class          | A                                                                                                               |
| Time response           | $t_{0.5} < 5$ s (in flowing water at $> 0.2$ m/s)                                                               |
| Type of sensing element | Pt1000                                                                                                          |
| Temperature coefficient | 3850 ppm / °C                                                                                                   |
| GENERAL TECHNICAL DATA  |                                                                                                                 |
| Wire connection         | 2-wire connection                                                                                               |
| Material of the case    | stainless steel DIN 1.4301                                                                                      |
| Dimensions of the case  | length 90/130 mm; diameter $6 \pm 0.1$ mm; <br>spacer ring diameter 8 mm                                        |
| Lead-in cable           | shielded teflon 2 x 0,22 mm <sup>2</sup>                                                                        |
| Length of lead-in cable | 5 meters                                                                                                        |
| Connector               | without connector                                                                                               |
| IP protection           | IP64                                                                                                            |
| Warranty                | 30 months                                                                                                       |