

## Temperature probe Pt1000TR050M/E, ELKA connector, cable 10 meters

code: SN273E



Temperature sensors are developed for measuring temperature of smoke and flue gases in the flue fireplaces, stoves and boilers.

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 | 10 meters                                                                                                       |
| Connector               | ELKA                                                                                                            |
| IP protection           | IP64                                                                                                            |
| Warranty                | 30 months                                                                                                       |