

Pt1000TR050M/0, temperature probe, cable 2 m

code: SN271

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 $+400^{\circ}\text{C}$, 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 $+400^{\circ}\text{C}$, short-term $+450^{\circ}\text{C}$, maximum temperature around the cable and above the clamping ring is $+260^{\circ}\text{C}$
Accuracy	$\pm (0.15 + 0.002 t)$ at $^{\circ}\text{C}$ in range -50 to $+250^{\circ}\text{C}$ $\pm (0.3 + 0.005 t)$ at $^{\circ}\text{C}$ in range over $+250^{\circ}\text{C}$
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 / $^{\circ}\text{C}$
GENERAL TECHNICAL DATA	
Wire connection	2-wire connection
Material of the case	stainless steel DIN 1.4301
Dimensions of the case	length 50 mm; diameter 6 ± 0.1 mm; spacer ring diameter 8 mm
Lead-in cable	shielded teflon $2 \times 0,22$ mm ²
Length of lead-in cable	2 meters
Connector	without connector
IP protection	IP64
Warranty	30 months