

TG 11.5 – TEMPERATURE SENSOR WITH CABLE AND METAL CASE

K33.03en

DESCRIPTION AND APPLICATION

These temperature sensors are designed for contact measurement of the temperature of gaseous and liquid or solid substances. The maximum temperature range is -50 to 200 °C. The 1.5 mm diameter of the case ensures fast response to changes in temperature. The type of lead-in cable used has teflon insulation without shielding and their case length is 100 mm. Lead-in cables are possible to extend with different types of cables. The sensors are designed for universal use. The method of use must be chosen with regard to the temperature and chemical resistance of the case and lead-in cable.

The sensors are also designed for use in a chemically nonaggressive environment.

ACCESSORIES

- connectors
- extension cables

DECLARATION, CERTIFICATES, CALIBRATION

Manufacturer provides **EU Declaration of Conformity**.

Calibration – The final metrological inspection – comparison with standards or working instruments – is carried out for all the products. Continuity of the standards and working measuring instruments is ensured within the meaning of the Section 5 of Act no.505/1990 on metrology. The manufacturer offers a possibility to supply the sensors calibrated in SENSIT s.r.o.'s laboratory (according to requirements of the EN ISO/IEC 17025 standard) or in an Accredited laboratory.

SPECIFICATIONS

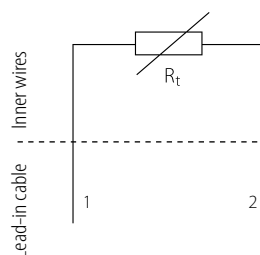
Sensor type	TG 11.5
Measuring range	-50 to 200 °C
Type of sensing element	Pt 100, Pt 1000, TC K, TC J
Connection of sensing element	2wire
Connection of extension cables	2wire, 3wire, 4wire
Ingress protection	IP 67 in accordance with EN 60529, as amended
Case material	stainless steel DIN 1.4301
Diameter of case	1.5 mm
Length of case L	20 to 40 mm
Wires	2 x AWG 32
Length of the wires	80 mm (for case length 20 mm)
Time response	$T_{0.5} < 1.5$ s (in flowing water > 1.5 m.s ⁻¹)

Note: Certain technical specifications of thermocouple sensors (lead wires, IP rating, etc.) may differ with different types.

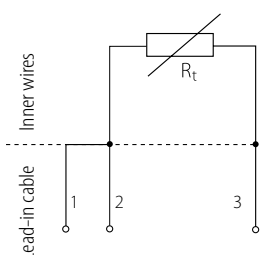


WIRING DIAGRAM

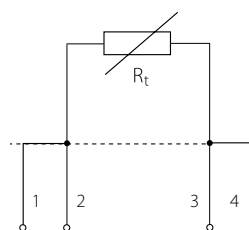
Two-wire



Three-wire



Four-wire



DIMENSIONAL DRAFT

