TG 4 – TEMPERATURE SENSORS WITH A CABLE AND METAL CASE

K03.05en

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 of use of the sensors is -50 to 200 °C. The material and diameter of the case ensure fast response to changes in temperature. The used type of lead-in cable has silicone insulation and shielding. The sensors are designed for use in chemically non-aggressive environment. The method of use must be chosen with regard to the temperature and chemical resistance of the case and lead-in cable.

ACCESSORIES

- connectors.

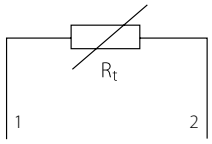
DECLARATION, CERTIFICATES, CALIBRATION

Manufacturer provides **EU Declaration of Conformity**.

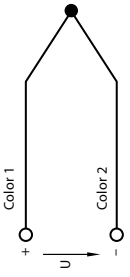
Calibration – The final metrological inspection – comparison with standards or working instruments – is carried out for all the products. Continuity of the standards and working measuring instruments is ensured within the meaning of the Section 5 of Act no.505/1990 on metrology. The manufacturer offers 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.

WIRING DIAGRAM

Two-wire



TC

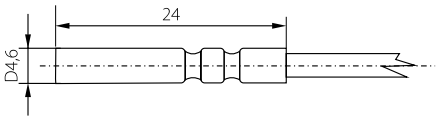


SPECIFICATIONS

Sensor type	TG 4
Measuring range	-50 to 200 °C (can be limited by the sensing element, determine in documentation)
Type of sensing element	Pt, Ni, NTC, TC K, TC J, TC T
Ingress protection	IP 67 in accordance with EN 60529, as amended
Case material	brass
Diameter/length of case L	4.6 mm/24 mm
Lead-in cable shielded silicone	2 x 0.22 mm^2
Wire resistance	0.16 Ω for 1 m of cable for 2-wire connection
Time response	τ0.5 < 7 s (in flowing water at 0.4 $m.s^{-1}$)

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

DIMENSIONAL DRAFT



MODIFICATION AND CUSTOMIZATION

- variable stem design in the area – L length, case material
- accuracy class A (with the exception of sensors Ni 10000/5000, Ni 10000/6180, T1 = Ni 2226, thermistor NTC 20 kΩ)

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