

TR 050H – TEMPERATURE SENSORS WITH A CABLE AND METAL CASE

K12.05en

DESCRIPTION AND APPLICATION

These temperature sensors are designed to measure the temperature of gaseous or solid substances. The maximum temperature range of use of the sensors is 0 to 350 °C, 450 °C short-term for the active part of the sensor case. The type of lead-in cable used has silicone insulation, thus the temperature in the cable surroundings must not exceed 200 °C. The sensors are primarily designed for measuring the temperature of flue gases and combustion products in flues of fireplaces, stoves and boilers. The sensors are designed for use in a 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

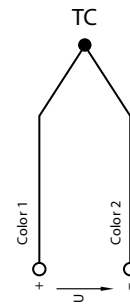
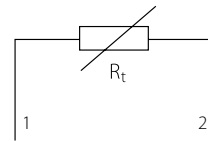
Manufacturer provides **EU Declaration of Conformity**.

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.

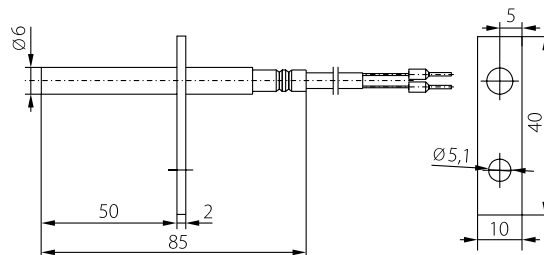


WIRING DIAGRAM

Two-wire



DIMENSIONAL DRAFT



Sensor type	TR 050H
Measuring range	0 to 350 °C (450 °C in a short-term) – measuring part of the case, up to 200 °C in the cable surrounding
Type of sensing element	Pt 100, Pt 500, Pt 1000
Ingress protection	IP 50 in accordance with EN 60529, as amended
Case material	stainless steel DIN 1.4301
Length of case L	50/85 mm
Diameter of case	6 + 0.1 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

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

MODIFICATION AND CUSTOMIZATION

- variable stem design in the area – L length, case material
- accuracy class A in the range of -50 to 250 °C