

TR 024K – TEMPERATURE SENSORS WITH A CABLE AND METAL CASE

K25.05en

DESCRIPTION AND APPLICATION

These resistance temperature sensors are designed for contact measurement of the temperature of gaseous, liquid or solid substances. Given the materials used and production technology, these sensors may also be used under very low temperatures. The maximum temperature range of use is $-100\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$ and must not be exceeded for a brief period. The diameter of the case ensures fast response to changes in temperature. The method of use must be chosen with regard to the temperature, chemical and mechanical 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.

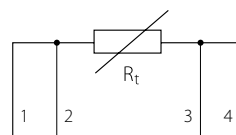
SPECIFICATIONS

Sensor type	TR 024K
Measuring range	$-100\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$ (must not be exceeded even in short-term)
Type of sensing element	Pt 100, Pt 1000
Ingress protection	IP 67 in accordance with EN 60529
Case material	stainless steel DIN 1.4301
Diameter of case	4 mm
Length of case	L 50 to 100 mm (in 10 mm)
Lead-in cable	shielded teflon 4 x 0.14 mm ²
Time response	$\tau_{0.5} < 4$; $\tau_{0.9} < 12.5\text{ s}$ (in flowing water at $0.4\text{ m}\cdot\text{s}^{-1}$)



WIRING DIAGRAM

Four-wire



DIMENSIONAL DRAFT

