

TR 046S – TEMPERATURE SENSORS WITH A CABLE AND METAL CASE

K26.05en

DESCRIPTION AND APPLICATION

These resistance temperature sensors are designed for contact measurement of the temperature of gaseous 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°C to 150°C and must not be exceeded for a brief period. The sensors are primarily designed for measuring the temperature in freezers, refrigerators etc. The resistive signal of the temperature sensor is led with individual conductors with Teflon insulation, which ensures their low volume, allowing them to be installed between door seals. 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.

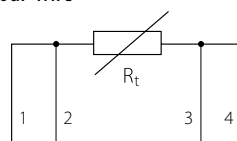
| | |
|-------------------------|--|
| Sensor type | TR 046S |
| Measuring range | -100°C to 150°C (must not be exceeded even in short-term) |
| Type of sensing element | Pt 100, Pt 1000 |
| Ingress protection | IP 67 in accordance with EN 60529 |
| Case material | stainless steel DIN 1.4301, DIN 1.4404 |
| Diameter of case | $6.0 \pm 0.1 \text{ mm}$ |
| Length of case | L 40 to 200 mm (in 20 mm) |
| Lead-in cable | teflon APFA 0.22 mm ² |
| Time response | $\tau_{0.5} < 7 \text{ s}$ (in flowing water at 0.4 m.s^{-1}) |



TEMPERATURE SENSORS WITH A CABLE

WIRING DIAGRAM

Four-wire



DIMENSIONAL DRAFT

