

TR 02 – TEMPERATURE SENSORS WITH CONNECTOR LEMO

C04.03en

DESCRIPTION AND APPLICATION

These resistance temperature sensors TR02 with a connector are designed for temperature measurements of gaseous or liquid substances. The temperature range is -50 to $250\text{ }^{\circ}\text{C}$ and these limits must not be exceeded even for a brief period. The temperature sensors with a connector consist of a metal case, in which the temperature sensing element is placed, and LEMO connector, which is an integral part of the case. The temperature sensors with a connector meet ingress protection IP 40 according to EN 60529, as amended and they are designed for temperature measurement in pipelines. The temperature sensors with a connector are intended to be used in operation in chemically non-aggressive environment.

DECLARATION, CERTIFICATES, CALIBRATION

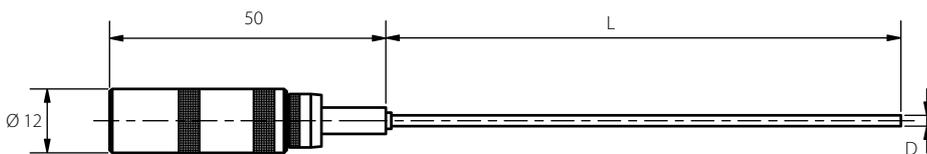
Manufacturer provides **EU Declaration of Conformity**.

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 02
Measuring range	-50 to $250\text{ }^{\circ}\text{C}$ (can be limited by type of the sensor, determine in documentation)
Sensing element	all types (Pt 100, Pt 1000, Ni 1000, Ni 10000, Ni 2226=Ti, NTC, PTC, KTY, TSIC, DALLAS and so on)
Ingress protection	IP 40 in accordance with EN 60529, as amended
Case material	stainless steel DIN 1.4301
Diameter of the case D	1.5; 2; 3; 4 and 5 mm
Length of the case L	20 to 500 mm
Connector	LEMO PCA.3S
Ambient temperature around connector	-50 to $120\text{ }^{\circ}\text{C}$

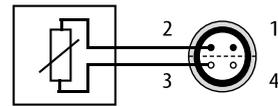
DIMENSIONAL DRAFT



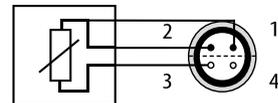
TEMPERATURE SENSORS WITH A CONNECTORS

WIRING DIAGRAM

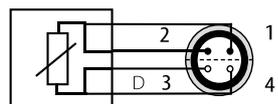
2-wire



3-wire



4-wire



2 x 2-wire

