

S 51/150 and TC 51/150 -50 to 150 °C, STICK-IN TEMPERATURE PROBE

S01.04en

DESCRIPTION AND APPLICATION

These resistance and thermocouple temperature probes **S 51/150** and **TC 51/150** are designed for the measurement of temperature of loose materials and solid substances, consistency of which is such so the metal tip cannot be damaged. They can be used also for measuring of liquid and gaseous substances. The temperature range for the use of the probe is -50 to 150°C. The temperature probes consist of a metal tip (stainless steel DIN 1.4301), a handle and a lead-in cable. Material composition of the probe conforms to the requirements of Decree 38/2001 Coll. as amended. The design allows easy cleaning, thanks to which the temperature probes can be used in the food industry. The resistance sensing element is located in the tip of the stainless steel case. The probes are intended for operation in chemically non-aggressive environment.

DECLARATION, CERTIFICATES, CALIBRATION

Manufacturer provides **EU Declaration of Conformity**.

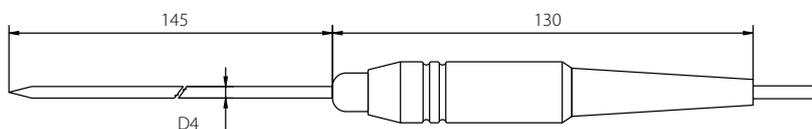
Calibration – The final metrological inspection – comparison with standards or working instruments – is carried out for all the products. Continuity of the standards and working measuring instruments is ensured within the meaning of the Section 5 of Act no.505/1990 on metrology. The manufacturer offers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

Probe type	S 51/150	TC 51/150
Measuring range	-50 to 150 °C	-40 to 150 °C
Type of sensing element	all types TC K, TC J	
Nr. of measuring points	up to 3 measuring points (Pt)	up to 6 measuring points (TC K)
Ingress protection	IP 68 (1 bar) in accordance with EN 60529, as amended	
Material of the probe tip	stainless steel DIN 1.4301	
Diameter of the probe tip	4 mm	
Length of the probe tip	145 mm	
End of the probe tip	sharp - standard, bevelled, round, flat	
Material of the handle	silicone	
Temperature resistance of the handle	up to 150 °C	
Lead-in cable	silicone shielded	silicone unshielded

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

DIMENSIONAL DRAFT

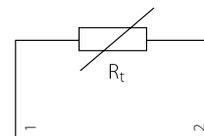


UP TO
6 MEASURING
POINTS

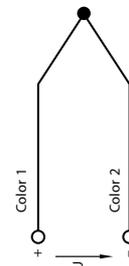
TEMPERATURE PROBES

WIRING DIAGRAM

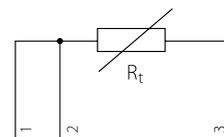
Two-wire



1x TC (up to 6x TC)



Three-wire



Four-wire

