



### DESCRIPTION AND APPLICATION

These resistance and thermocouple temperature probes **S 09x/260** and **TC 09x/280** 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 liquid and gaseous substances. The temperature range for the use of the sensor is -50 to 280 °C (300 °C for a short time). The sensors consist of a metal tip (stainless steel DIN 1.4301), a handle and a lead-in cable. Material composition of the probes 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.



UP TO 6 MEASURING POINTS

### DECLARATION, CERTIFICATION, CALIBRATION

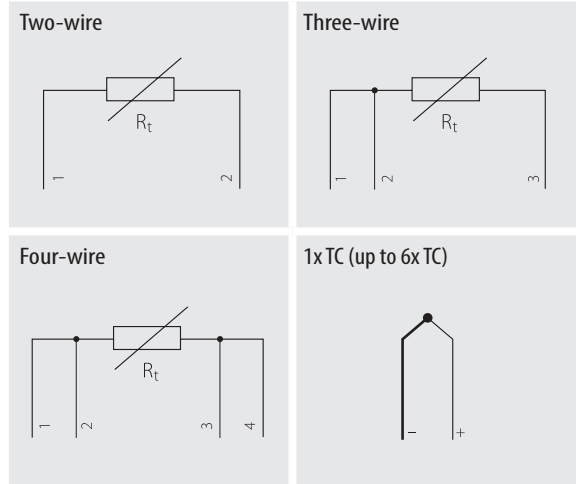
Manufacturer provides **EU Declaration of Conformity**.

**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.

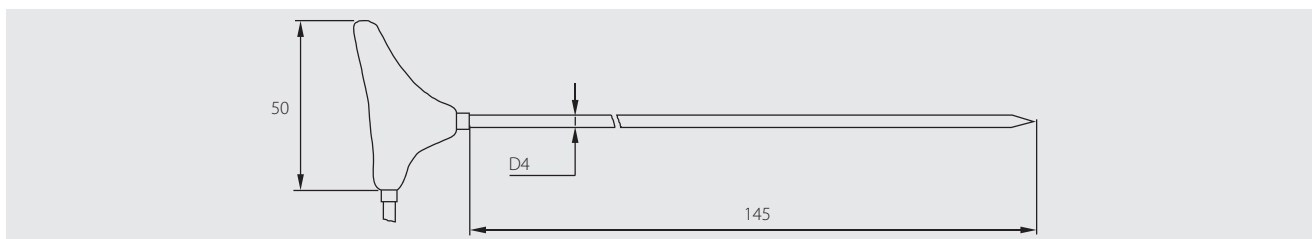
### SPECIFICATIONS

Probe type	S 09x/260	TC 09x/280
Measuring range	-50 to 260 °C (for a short time 300 °C)	-40 to 280 °C (for a short time 300 °C)
Type of sensing element	all types	TC K
Nr. of measuring points	up to 3 measuring points	up to 6 measuring points
Ingress protection	IP 68 (1 bar) in accordance with EN 60529	
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	flat, round, sharp, bevelled	
Material of the handle	PEEK	
Temperature resistance of the handle	up to 280 °C	
Lead-in cable	teflon shielded 2 x 0.14 mm <sup>2</sup>	teflon shielded 2 x 0.22 mm <sup>2</sup>
	teflon shielded	
	4 x 0.14 mm <sup>2</sup>	

### WIRING DIAGRAM



### DIMENSIONAL DRAFT



### SENSOR INSTALLATION AND SERVICING

Connect the temperature probe to a measuring device according to the wiring diagram. The input of the measuring device must be compatible with the sensor chosen by a customer. Various types of connectors may be used for connection (e.g. CINCH, CONEC, etc.).

Shielding of the lead-in cable is not electrically connected to the outer sensor case or to the temperature sensing element. After connecting to the electrical measuring equipment, the temperature probe is ready for use. The sensor does not require any special servicing or maintenance. The work position is adjustable.

**The sensors cannot be used for any purpose other than temperature measurement; when handling them, appropriate precautions must be taken to avoid injury caused by the metal tip.**