

# S 81/80

## -30 to 80 °C, SPECIAL TEMPERATURE PROBE

S10.04en

### DESCRIPTION AND APPLICATION

These resistance temperature probes **S81/80** are designed for the measurement of temperature of frozen food. The temperature range for the use of the sensor -30 to 80°C. 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**.

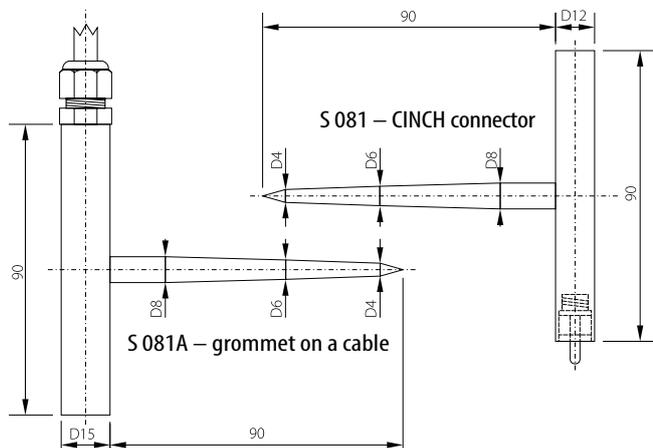
**Calibration** – The final metrological inspection – comparison with standards or working instruments – is carried out for all the products. Continuity of the standards and working measuring instruments is ensured within the meaning of the Section 5 of Act no.505/1990 on metrology. The manufacturer 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 081
Measuring range	-30 to 80 °C
Type of sensing element	all types (Pt 100, Pt 1000, Ni 1000, Ni 10000, Ni 2226=T1, NTC, PTC, KTY, TSiC, DALLAS, TCK, TC J, TC T and so on)
Ingress protection	IP 67 in accordance with EN 60529, as amended
Material of the case	stainless steel DIN 1.4301
Length of the probe tip	90 mm
Diameter of the probe tip D	8/ D 6/ D 4 mm
Material of the handle	stainless steel DIN 1.4301
Lead-in cable	silicone shielded

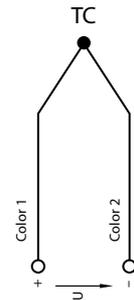
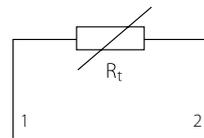
Note: Certain technical specifications of thermocouple sensors (lead wires, IP rating, etc.) may differ with different types.

### DIMENSIONAL DRAFT

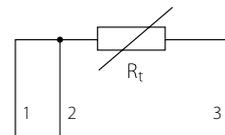


### WIRING DIAGRAM

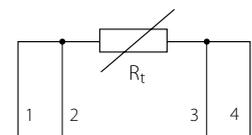
Two-wire



Three-wire



Four-wire



TEMPERATURE PROBES