

# S 33/250

## -30 TO 250 °C, CONTACT TEMPERATURE PROBE

S07.04en

### DESCRIPTION AND APPLICATION

These resistance temperature probes **S 33/250** are designed for contact measurement of solid substances with flat and smooth surface. The temperature range for the use of the probe is -30 to 250 °C. The probes consist of a metal case terminated by a special cup to contact the measured surface, a handle, and a lead-in cable. The resistance sensing element is located in a brass (duralumin) cup, which is firmly placed in a special rubber case reducing the influence of the surrounding environment on the measurement. The temperature probes are intended for operation in chemically non-aggressive environment.



### DECLARATION, CERTIFICATES, CALIBRATION

Manufacturer provides **EU Declaration of Conformity**.

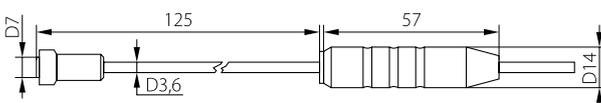
**Calibration** – The final metrological inspection – comparison with standards or working instruments – is carried out for all the products. Continuity of the standards and working measuring instruments is ensured within the meaning of the Section 5 of Act no.505/1990 on metrology. The manufacturer 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 33/250
Measuring range	-30 to 250 °C
Type of sensing element	all types (Pt 100, Pt 1000, Ni 1000, Ni 10000, Ni 2226=T1, NTC, PTC, KTY, TSiC, DALLAS, TC K, TC J, TCT and so on)
Ingress protection	IP 43 in accordance with EN 60529, as amended
Material of the case	stainless steel DIN 1.4301
Material of the contact cup	dural 424554.61
Length of the case	125 mm
Material of the handle	teflon
Temperature resistance of the handle	up to 200 °C
Lead-in cable	silicone shielded

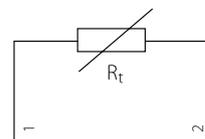
*Note: Certain technical specifications of thermocouple sensors (lead wires, IP rating, etc.) may differ with different types.*

### DIMENSIONAL DRAFT

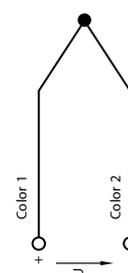


### WIRING DIAGRAM

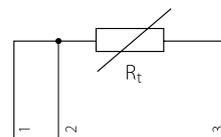
Two-wire



1x TC



Three-wire



Four-wire

