



RealProbe^{Temp}

RTD Platinum Sensor in Stainless Steel Probe

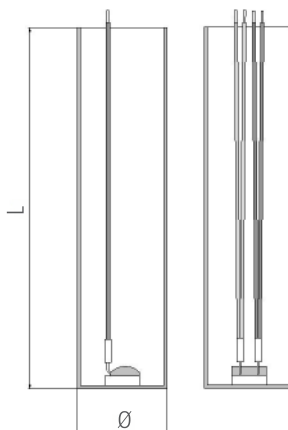
For outstanding thermal coupling and probe assemblies

Benefits & Characteristics

- Very good thermal coupling – very small immersion depths possible
- Suitable for applications with limited space and high temperature gradients
- Resistant against vibrations (verified according IEC 60751)
- Fast response time

Illustration¹⁾

The RealProbe^{Temp} is a pre-assembled component (semi-finished product) for the production of temperature probes.



1) For actual size, see dimensions

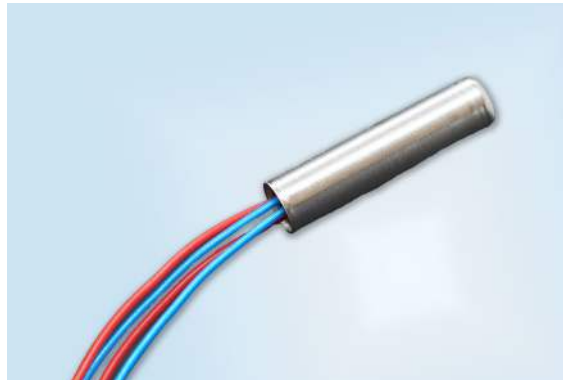
Technical Data

Operating temperature range:	-50 °C to +200 °C
Nominal resistance:	100 Ω at 0 °C
Characteristics curve:	3850 ppm/K
Long term stability:	< 0.04 % at 1000 h at maximal operating temperature
Response time:	< 1.5 s (in water, 0.4 m/s, assembled, immersion depth 80 mm to 100 mm)
Maximal allowed pressure:	100 bar
Electrical strength:	1000 V _{DC} , 1 s
Tolerance class (dependent on temperature range):	IST AG reference IEC 60751 F0.15 A

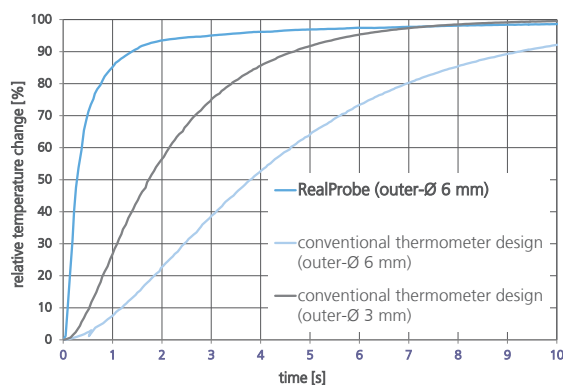


Connection:	4 x AWG 28/7, Cu/Ag-stranded wire, PTFE-insulated, 5 mm stripped
Wire lengths:	385 mm or 1175 mm
Wire color coding:	class A: 2 x red, 2 x white; class B: 2 x red, 2 x blue
Deep drawing sheath:	material: 1.4404 / 316L, wall thickness: 0.4 mm, length: 25 mm, outer Ø: 6 mm Tolerance: Ø ±0.1 mm, L ±0.3 mm
Recommended applied current: ¹⁾	1 mA at 100 Ω
¹⁾ Self-heating must be considered	

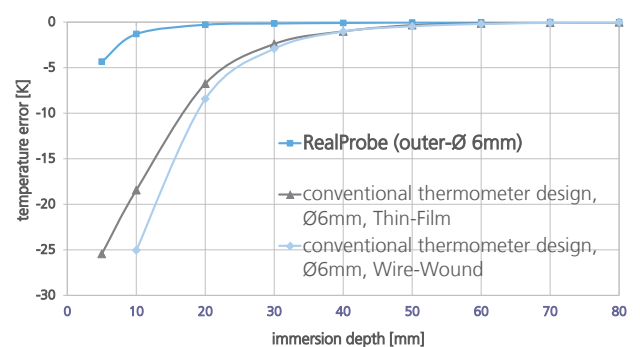
Product Photo



Measurements of comparison



Response time of RPT compared with standard RTDs



Minimized immersion depth compared with standard RTDs



Order Information

Description:	Item number:	Former main reference:
RPT0K1.625.2K.A.385-4.H	101931	010.03592

Additional Documents

	Document name:
Application Note:	ATP_E



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