



## **RealProbe**<sup>Temp</sup>

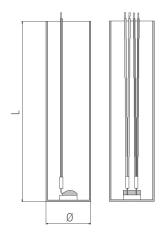
## **RTD Platinum Sensor in Stainless Steel Probe** For outstanding thermal coupling and probe assemblies

### 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

#### Illustration<sup>1)</sup>

The RealProbe<sup>Temp</sup> 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 <sub>DC</sub> , 1 s
Tolerance class (dependent on temperature range):	IST AG reference
	IEC 60751 F0.15 A



4 x AWG 28/7, Cu/Ag-stranded wire, PTFE-insulated, 5 mm

class A: 2 x red, 2 x white; class B: 2 x red, 2 x blue

material: 1.4404 / 316L, wall thickness: 0.4 mm, length: 25 mm, outer Ø: 6 mm Tolerance: Ø  $\pm$ 0.1 mm, L  $\pm$ 0.3 mm

physical. chemical. biological.

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#### Connection:

Wire lengths: Wire color coding:

Recommended applied current:<sup>1)</sup> <sup>1)</sup> Self-heating must be considered

Deep drawing sheath:

#### Product Photo

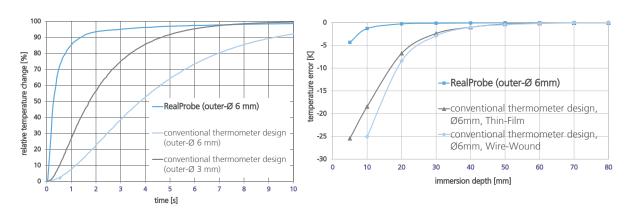


stripped

375 mm or 1175 mm

1 mA at 100  $\Omega$ 

#### Measurements of comparison



Response time of RPT compared with standard RTDs

Minimized immersion depth compared with standard RTDs



physical. chemical. biological.



# Order Information Description: Item number: RPT0K1.625.2K.A.385-4.H 101931 Additional Documents

Former main reference: 010.03592

Additional Documents

Application Note:



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Document name:

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