



Images are for reference only.
Different production options available, see product specifications.

General purpose RTD sensor - fixed insert

7400

- Terminal head DIN 43729 form B
- Protective tube $\varnothing 9$ mm
- G $\frac{1}{2}$ process connector
- 3-wire sensor element
- Accuracy, IEC 60751 class A
- Temperature range $-50...+400^{\circ}\text{C}$

Application

- Temperature measurement in industrial systems, e.g. in the food, chemical and pharmaceutical industries, cold storage plants, district heating, power plants, refineries and ships.
- Temperature measurement in gas and floating media.
- Marine certifications: DNV, BV, LR, ClassNK, RINA

Technical characteristics

- The 7400 comes with a fixed measurement insert.
- The sensor element is a thin film platinum resistor - Pt100 - trimmed at a laboratory to comply with the resistance values of the standard IEC 60751, class A. The advantage of a thin film element is an ultra short reaction time. The Pt100 element is electrically isolated from the protecting tube and terminal head.
- The protecting tube is $\varnothing 9 \times 1$ mm stainless, acid-proof steel W no. 1.4571 / AISI 316Ti, filled with aluminum oxide powder. A 1/2" RG thread nipple is welded on the protecting tube with a packing sheet of $\varnothing 30$ and span 30.
- The terminal head is a standard DIN 43729 form B housing produced in light-alloy metal, protected against corrosion through strong industrial lacquering.
- The sensor is available with or without cooling extension to keep the terminal head clear of isolated surfaces.

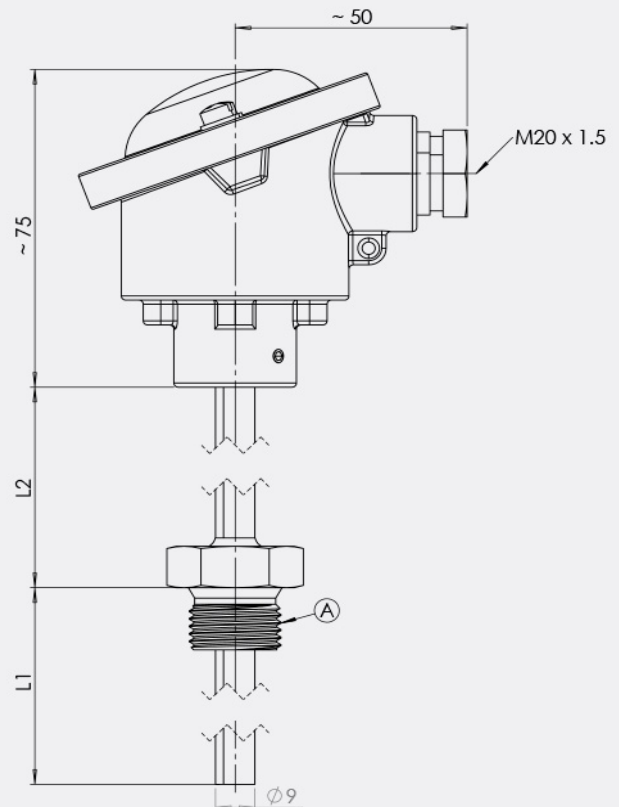
Electrical connection

- Each sensor is delivered with a three-wire connection which allows cable compensation to the sensor element.

Option

- Combine with the PR 5300 / PR 5400 series transmitter - we can deliver the transmitter pre-mounted to the sensor.
- Optional ceramic socket available for connection to externally installed transmitters.
- Material certificate, certificate of origin, certificate of conformity and calibration reports can be supplied when ordered together with the sensor.

Anwendungen



Order**NOTE: NEW ORDER TABLE**

Type	Housing	Accuracy	Cooling extension (L2)	Insertion length (L1)
7400	Aluminum : A	Cl A : 1	None : A	50 mm : 1
			100 mm : B	100 mm : 2
				150 mm : 3
				200 mm : 4
				300 mm : 5
				400 mm : 6

Example: 7400A1A1A = Aluminum housing, Cl. A, L2=none, L1=50 mm

NB: Head-mounted transmitters must be ordered separately and can be installed in the housing by PR electronics on request.

Options

1130	Material certificate acc. to EN 10204 3.1	1133	Calibration 3-point - in-house	1135	Accredited calibration certificate 3-point
1131	Works reported acc. to EN 10204 - paragraph 2.2	1134	Calibration 5-point - in-house	1136	Accredited calibration certificate 5-point
1132	Certificate of Origin				

Umgebungsbedingungen**Mechanische Spezifikationen**

Kabelverbindung.....	M20 x 1,5
Max. Anzugsmoment.....	50 Nm
Dichtungsoberfläche.....	Ø 30 x Ø 21,5
Max. Druck für Einbaulänge > 250 mm.....	22,5 Bar
Schlüsselweite.....	30

Allgemeine Spezifikationen

Empfohlener Sensorstrom.....	≤ 2 mA
Max. Temperaturabweichung bei 0°C.....	≤ ±0,15°C
Typische Ansprechzeit: Wasser mit einem Durchfluss von 0,2 m/s.....	t _{0,5} nach 20 s / t _{0,9} nach 28 s
Typische Ansprechzeit: Luft mit einem Durchfluss von 1 m/s.....	t _{0,5} nach 60 s / t _{0,9} nach 180 s

Eingehaltene Behördenvorschriften

RoHS..... 2011/65/EU

Zulassungen