

**RESISTANCE THERMOMETER**  
Measuring insert: Fixed

**Type: IN**  
**R20/R25/R40/R60**

10130-E210524V3.2

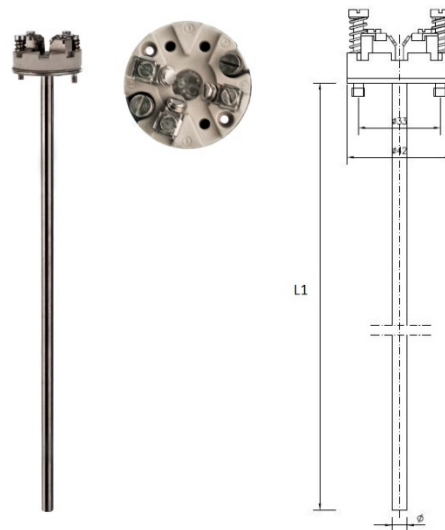


**Application:**

- For type A and B resistance thermometers
- Electrical connection: Standard heads

**Properties:**

- Sensor 1xPt100, 2xPt100, Pt1000 or 2xPt1000 in acc. with IEC 60751
- Process attachment: Free leads, ceramic block, temperature transmitter
- Marine approved by: DNV, LR, NK, RINA, ABS, and BV.



**MECHANICAL SPECIFICATIONS:**

**Protective sheath:** -----

EN 1.4571 (AISI 316Ti) max. 850°C  
Other on request

**Sensor diameter Ø [mm]:** -----

Ø6 / Ø8  
Other on request

**Insert length L1 [mm]:** -----

125  
175  
225  
275  
325  
525  
735  
1025  
1425  
Special

**ELECTRICAL SPECIFICATIONS**

**Sensor element:**

1xPt100  
2xPt100  
1xPt1000 (only cl. B 1/1 and cl. A)  
2xPt1000 (only cl. B 1/1 and cl. A)

**Number of conductors:**

2-wire (recommended only for Pt1000)  
3-wire  
4-wire

**Media temperature max:**

+180°C  
+250°C  
+400°C  
+600°C (only cl. B 1/1 Pt100 and Pt1000)

**Tolerance in acc. with IEC 60751:**

Type A DIN (i.e.  $\pm(0,15+0,002 \times \text{Tactual})$  °C)  
Type B 1/1 DIN (i.e.  $\pm(0,3+0,005 \times \text{Tactual})$  °C)  
Type B 1/3 DIN (i.e.  $\pm(0,1+0,0017 \times \text{Tactual})$  °C)  
Type B 1/6 DIN (i.e.  $\pm(0,05+0,00083 \times \text{Tactual})$  °C)  
Type B 1/10 DIN (i.e.  $\pm(0,03+0,0005 \times \text{Tactual})$  °C)

Link for further information: [Pt100 Tolerance](#)

Date:

Part No.:

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### Calibration:

Temperature calibration are used to verify and certify the sensor to have the correct accuracy. We can do either: "In house" or "Accredited" calibration. Accredited is certified by 3.e part. Normally we do a calibration in 3 points.

### Enhanced performance services:

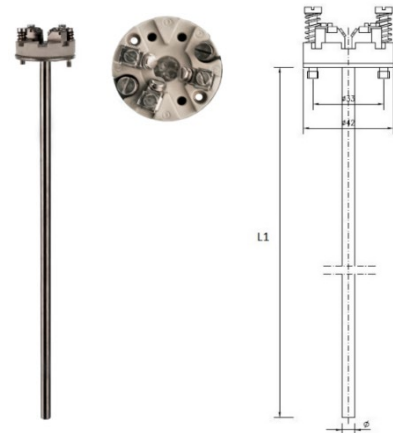
Cold applications (below -50°C) will influence the material and the measurement. CRYO treatment is needed to ensure a correct and working sensor down to -196°C.

A sensor will always drift over time, especially when there are high temperature fluctuations.

With "Ageing treatment" we stabilize the sensor to ensure a minimum drift over time. The benefits are long term stability, more correct measurement and easier planning of calibration periods.

### Documentation:

Please order the correct documentation when ordering the sensor.



### SIGNAL PROCESSING

Ceramic socket mounted. ----- ☐

Prepared for transmitter w/o ceramic socket. ----- ☒  
w/long leads

Programmable head mounted transmitter----- ☐

Measuring range min/max: -200/+850°C

Output: 2-wire, 4-20 mA

Min. span: 25°C

Ambient temperature min/max: -40/+85°C

[5333A Uninsulated for RTD](#)

[5333D EEX Uninsulated for RTD](#)

[5332A Uninsulated for RTD](#)

[5332D EEX Uninsulated for RTD](#)

[5331A Galvanic Isolated RTD / TC](#)

[5331D EEX Galvanic Isolated RTD / TC](#)

[5335A Hart 5 Protocol Standard](#)

[5335D Hart 5 Protocol CSA, FM, ATEX, IECEx](#)

[5337A Hart 5 & 7 Protocol](#)

[5337D Hart 5 & 7 Protocol CSA, FM, ATEX, IECEx](#)



Transmitter Type:	<input type="text"/>
4 mA = <input type="text"/> C°	20 mA = <input type="text"/> C°

### Programmable rail mounted transmitter

Link to further information: [Transmitter Overview](#)

### CALIBRATION

#### Calibration:

In house (Span -33°C - +700°C)

Accredited – in laboratory (-196°C - +1200°C)

1. Point	<input type="text"/>	°C
2. Point	<input type="text"/>	°C
3. Point	<input type="text"/>	°C

More point on request

### Enhanced performance services



#### Cryo treatment.

For temperature sensor under -50°C



#### Ageing:

For long term stability.  
Secure minimum drift of sensor accuracy



#### Documentation

Certificate: 3.1 Material  
Certificate of origin  
Certificate of conformity



#### Marine Certificate

Certificate of DNV  
Certificate of BV  
Certificate of Rina  
Certificate of ClassNK  
Certificate of LR  
Certificate of ABS

Other on request

Save

Print

Submit

Date:

Part No.: