

**RESISTANCE THERMOMETER**  
Measuring insert: Fixed

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

10130-E210524V3.2

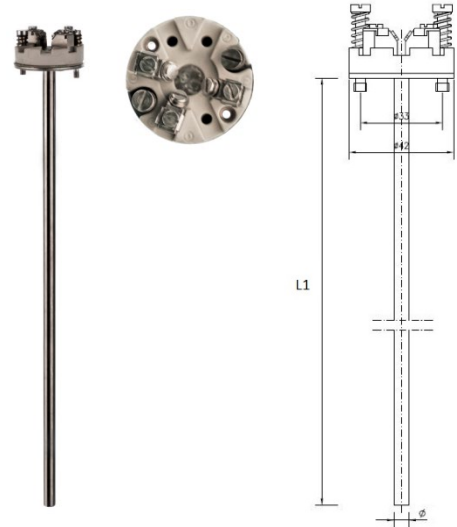


**Application:**

- 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·GL, 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.±(0,15+0,002xTactual) °C)  
Type B 1/1 DIN (i.e.±(0,3+0,005xTactual) °C)  
Type B 1/3 DIN (i.e.±(0,1+0,0017xTactual) °C)  
Type B 1/6 DIN (i.e.±(0,05+0,00083xTactual) °C)  
Type B 1/10 DIN (i.e.±(0,03+0,0005xTactual) °C)

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

**Date:**

**Part No.:**

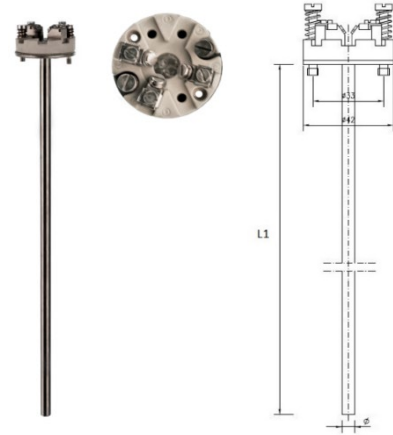
<b>RESISTANCE THERMOMETER</b> <b>Measuring insert: Fixed</b>	<b>Type: IN</b> <b>R20/R25/R40/R60</b>	<div style="text-align: right;"> </div> <p>10130-E210524V3.2</p>
---	---	--

**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:					
4 mA =		°C	20 mA =		°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	°C
2.	Point	°C
3.	Point	°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·GL  
 Certificate of BV  
 Certificate of Rina  
 Certificate of ClassNK  
 Certificate of LR  
 Certificate of ABS

Other on request

Date:

Part No.: