

RESISTANCE THERMOMETER
Measuring insert: Fixed

Type:
RT-RR1-P

Sheet No.
1-30 V2.1
5853-E010818V2.1

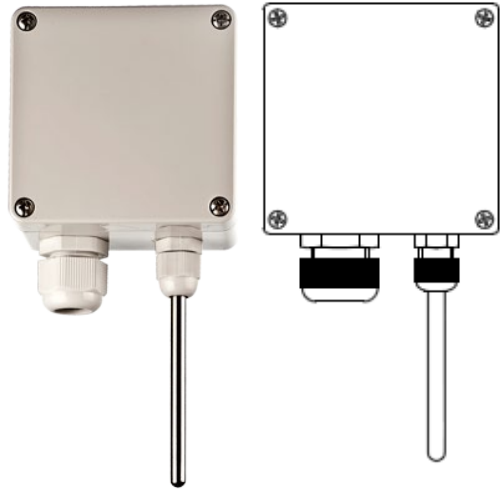


Application:

- For measuring indoor and outdoor temperatures
- For damp rooms
- For cold storage rooms/ freezer compartments
- For holds

Properties:

- Pt100 or Pt1000 resistance thermometer in acc. with IEC 60751
- Measuring insert: Fixed
- Process attachment: ABS box
- Resists shocks and vibrations
- Outer protective sheath: Stainless acid-proof steel
- IP67
- Marine approved by: DNV·GL, LR, NK, RINA, ABS and BV
- Approved by: GOST and TRCU (on request)



MECHANICAL SPECIFICATIONS:

Protective sheath: -----
EN 1.4571 (AISI 316Ti) max. 850°C
Other on request

Protective sheath diameter Ø [mm]: -----
Ø6
Ø8
Other on request

Insert length L1 [mm]: -----
50
80
Other on request

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:
-40/+80°C
Special

-----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](#)

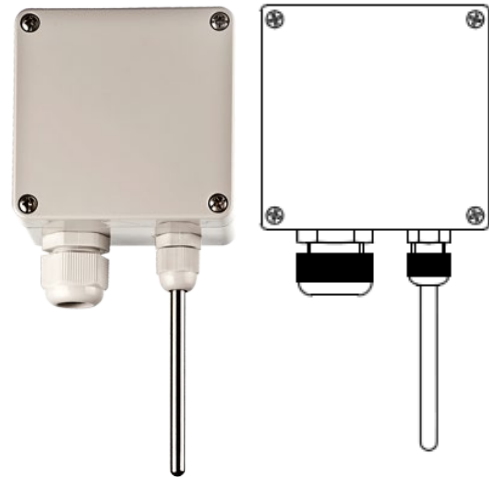
RESISTANCE THERMOMETER Measuring insert: Fixed	Type: RT-RR1-P	Sheet No. 1-30 V2.1 5853-E010818V2.1 
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Calibration:
 Temperature calibration are used to verify and certify the sensor to have the correct accuracy. We can do either: "In house" or "Accredited" 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 in terminal head. -----

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°

- [5350A Profibus standard](#)
- [5350B Profibus ATEX, FM and CSA](#)

Link to further information:

- [Transmitter Overview](#)
- [Programmable rail mounted transmitter](#)

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
 Certificate of GOST
- Marine Certificate**
 Certificate of DNV.GL
 Certificate of BV
 Certificate of Rina
 Certificate of ClassNK
 Certificate of LR
 Certificate of ABS

Other on request