

RESISTANCE THERMOMETER
Measuring insert: Fixed

Type:
RT-RST-M

5857-E040624V2.2

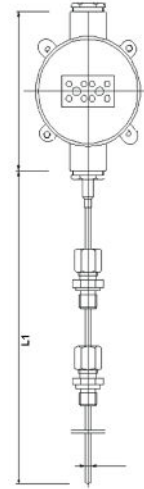


Application:

- Stern Tube

Properties:

- Pt100 resistance thermometer in acc. with IEC 60751
- Measuring insert: fixed
- Mechanical and thermal stress in accordance with DIN 43772
- Process attachment: adjustable coupling
- Constructed so as to have the greatest possible accuracy and durability during demanding operating conditions that means:
 - It is robust
 - It is flexible/ bendable (do not bend the first 50mm!)
 - It has a quick reaction time
- Outer protective sheath: acid-proof steel
- IP67
- Electrical connection: Connection box
- Mechanical connection: 2 adjustable couplings
- Marine approved by: DNV, LR, NK, RINA, ABS and BV



MECHANICAL SPECIFICATIONS

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

Mineral insulated tube diameter [mm]: ----
Ø3 mm
Ø4.5 mm
Ø6 mm
Special

Mineral insulated tube length L1 [mm]: ----
2000 mm
3000 mm
5000 mm
7000 mm
10000 mm
Special

Adjustable coupling: -----
Adjustable 1/4" BSP
Adjustable 3/8" BSP
Adjustable 1/2" BSP
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 temperatures max:
+600°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](#)

Date:

Part No.:

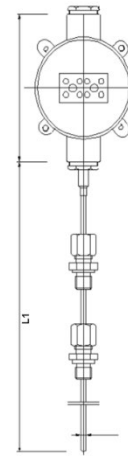
RESISTANCE THERMOMETER Measuring insert: Fixed	Type: RT-RST-M	 5857-E040624V2.2
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Calibration:
Temperature calibration are used to verify and certify the sensor to have the correct accuracy. We can do either: "In house" or "Accredited" calibration. Accredited 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

Enclosure

- Marine Box (112x82x42mm) -----
- ABS Box (82x80x56mm) -----
- NONE -----

Programmable 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°

- [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	<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

Date:

Part No.: