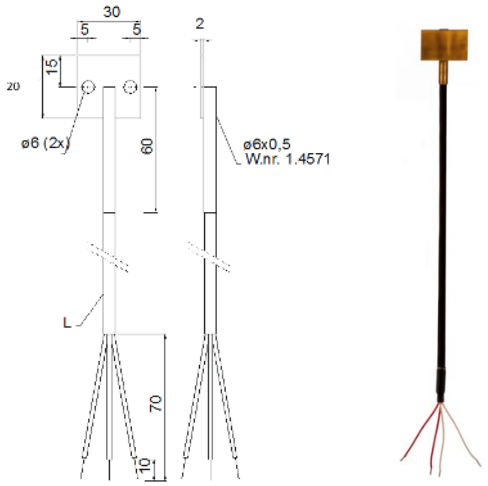
RESISTANCE THERMOMETER **Measuring insert: Fixed**	**Type: RT-RSM**	Sheet No. 1-75 V2.1 **5858-E010818V3.1**

Application:

- For measuring temperatures in air-conditioning and cold storage plants
- For tasks that require temperature measurement of flat surfaces

Properties:

- Sensor Pt100 or Pt1000
- Tolerance in acc. with IEC 60751: type B1/1DIN
- Electrical connection: Cable
- Measuring insert: fixed
- Plate size: 20 mm x 30 mm
- Process attachment: Screws
- Outer protective sheath: Steel or Brass
- Practical design
- IP54



MECHANICAL SPECIFICATIONS

Protective sheath: ----------
EN 1.4571 (AISI 316Ti, max. 850°C)
Brass (for quick reaction)
Special

Sensor diameter Ø [mm]: ----------
Ø3 / Ø4.5 / Ø6
Special

Sensor lenght: [mm]: ----------
60mm
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

-----Temperature range min/max:
-50/+180°C
-50/+250°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.±(0,06+0,00083xTactual)°C)
Type B 1/10 DIN (i.e.±(0,03+0,0005xTactual)°C)
Special

-----Electrical connection:
Cable type SS (Silicone-Silicone)
Cable type SBS (Silicone-Braided-Silicone)
Cable type TBT (Teflon-Braided-Teflon)
Special

-----Cable length L [m]:
2 / 4 / 6 / 10
Special

-----Degree of protection:
IP54
IP67

Link for further information: Pt100 Tolerance

Date:

Part No.

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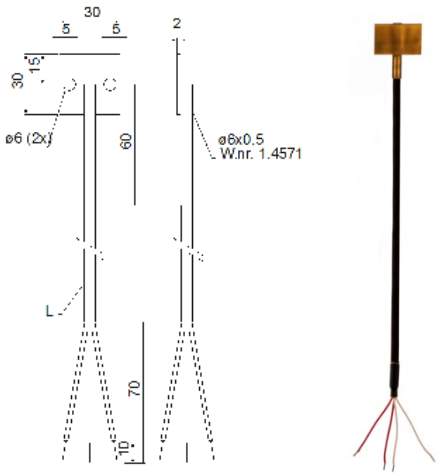
Calibration:

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

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:			
4 mA =	C°	20 mA =	C°

Link to further information:

Transmitter Overview

Programmable rail mounted transmitter

CALIBRATION

None ----**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

Other on request

Save Print Submit

Date:

Part No.

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