RESISTANCE THERMOMETER **Measuring insert: Interchangeable** Multispot Thermometer	**Type:** **RST-T**	Sheet No. 1-55 V2.1 **5753-E010818V3.1**

Application:

- Tank temperature sensor for measuring.

Properties:

- Pt100 or Pt1000 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
- Outer protective sheath: acid-proof steel IP67
- Marine approved by: DNV·GL, LR, NK, RINA, ABS and BV
- Approved by: GOST, TRCU on request.

MECHANICAL SPECIFICATIONS

Protective sheath: ----------
Wnr.1.4571 (AISI316TI max 850°C)
Other on request

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

Mineral insulated tube 1 length: ----------

Mineral insulated tube 2 length: ----------

Mineral insulated tube 3 length: ----------

Mineral insulated tube 4 length: ----------

Adjustable coupling ----------
G1/4B
G3/8B
G1/2B

Cooling neck: ----------

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:
-196°C / +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.±(0,05+0,00083xTactual) °C)
Type B 1/10 DIN (i.e.±(0,03+0,0005xTactual) °C)

---Cable Type:
SS (Silicone-Silicone) max. 180°C
SBS (Silicone-Inner Braided-Silicone)
TBT (Teflon-Inner Braided-Teflon)
None

----Cable length [m]:

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

Terminal block mounted in terminal SS Box. ---------- ○

With Transmitter mounted in terminal SS Box --------- ●

Without SS connections box. ---------- ○

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
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

Save Print Submit

Date: **Part No.**

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