

**RESISTANCE THERMOMETER**  
Measuring insert: Fixed

**Type: RT  
RST-TS**

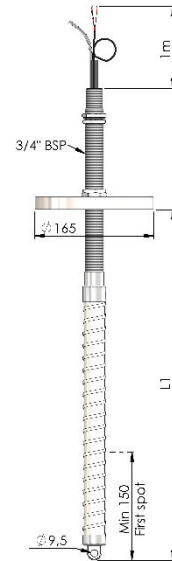
5753-E100724V3.2



**Application:**

The RT-RST-TS is a multi-spot temperature sensor used for measuring the average temperatures, primarily in stationary tank systems, with requirements to the tolerance and the response time of the temperature measurement. The RT-RST-TS is often used in connection with measuring of volume in e.g. oil or bitumen or for estimating the accumulated energy in bulk storing tanks.

- The measuring elements are in accordance with IEC 60751.
- Min. 150 mm from bottom of the sensor to the first spot.
- Flexible stainless-steel tube with diameter 1".
- Accessories: Flanges, weights, terminal boxes and transmitters.



**MECHANICAL SPECIFICATIONS**

**Protective tube:**   
Stainless steel EN 1.4404 (AISI 316L),  
max. 850°C

**Total length L1 [mm]:**   
Min. 1000 mm, max. 70000 mm

**Process attachment:**   
3/4" BSP  
Flange DN50 PN16 EN 1092-1 TP05, Ø165mm  
Special

**Number of elements:**   
Max. 22 elements  
Element placements: use page 3

**Accessories:**   
Bottom Weight 5 kg

**ELECTRICAL SPECIFICATIONS**

**Sensor element:**  
1xPt100  
1xPt1000 (only cl. B 1/1 and cl. A)

**Number of conductors:**  
3-wire  
Special

**Media temperature max.:**  
-50/+250°C  
Special

**Electrical connection:**  
Free Leads  
With SS connection box  
With connection box and protected cable

**Cable length L2: 1m (std.)**  
Anaconda protection

**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)

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

**Date:**

**Part No.**

<b>RESISTANCE THERMOMETER</b> Measuring insert: Fixed	<b>Type: RT</b> <b>RST-TS</b>	 5753-E100724V3.1
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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.

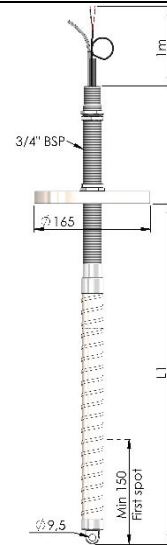
CRYO treatment is needed to ensure a correct and working sensor down to -196°C.

A sensor will always drift over time, especially when there is 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 SS Box
- ABS Box
- NONE



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](#)



**CALIBRATION**

In House

**Calibration:**

- In house (Span)
- Accredited – in laboratory

1.	Point	<input type="text"/>	°C
2.	Point	<input type="text"/>	°C
3.	Point	<input type="text"/>	°C

**Enhanced performance services**

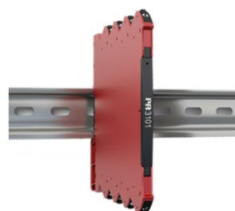
- Cryo treatment:**  
Recommended for temperature applications below -50°C
- Ageing:**  
For long term stability

- Documentation**  
Certificate: 3.1 Material certificate  
Certificate of origin  
Certificate of conformity

Transmitter Type:	<input type="text"/>
4 mA = <input type="text"/> C°	20 mA = <input type="text"/> C°

Link to further information:

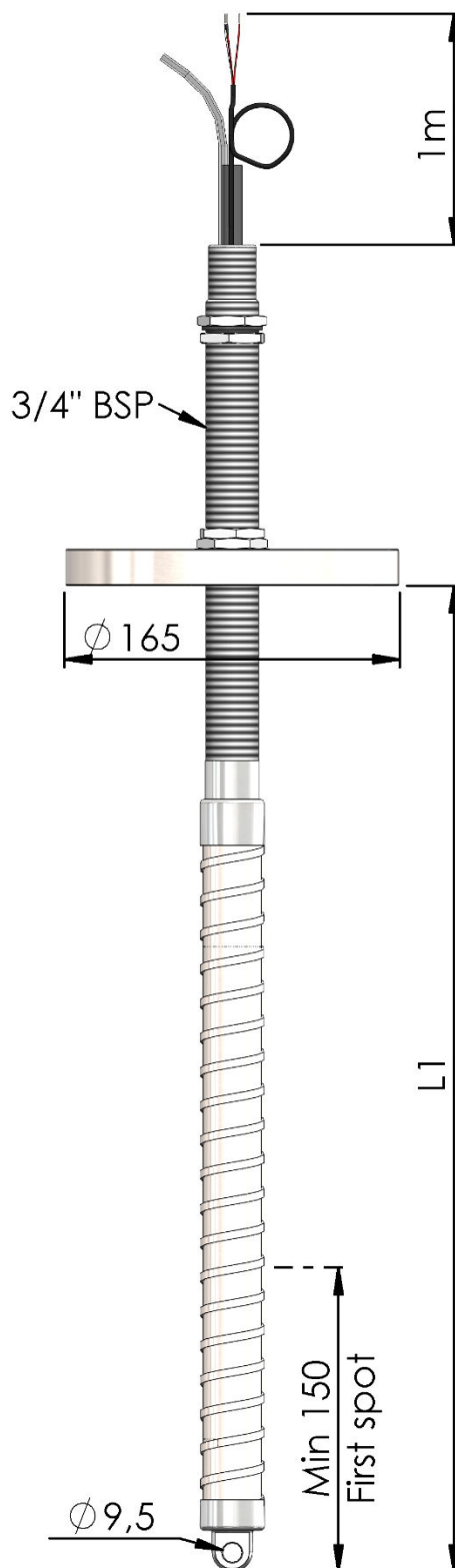
- [Transmitter Overview](#)
- [DIN rail mounted transmitter](#)



Date:	<input type="text"/>
Part No.	<input type="text"/>



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Date:	KP item No.:	Customer item No.:
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