

**RESISTANCE THERMOMETER**  
Measuring insert: Fixed.

**Type:**  
**RT-RC1-C**

5751-E050624V2.2

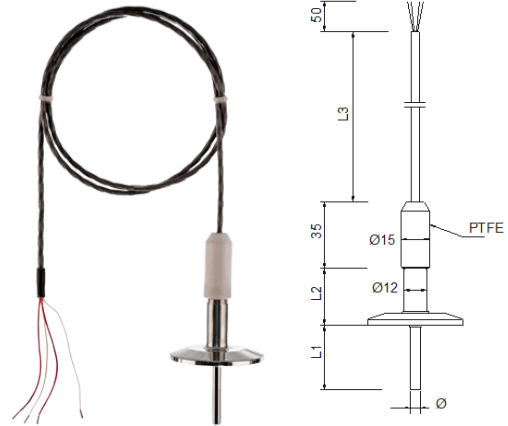


**Application:**

- For measuring temperatures in the food industry and the pharmaceutical, cosmetic and chemical/ technical industries

**Properties:**

- Sensor: Pt100, 2xPt100, Pt1000 in acc. with IEC 60751
- Measuring insert: Interchangeable
- Mechanical and thermal stress in accordance with DIN 43772
- Process attachment: Flange
- Outer protective sheath and flange: Stainless acid-proof steel
- Stands media temperatures of up to max. 250°C
- Stands ambient temperatures of up to max. 250°C
- Stands vibrations
- Quick reaction time
- IP67



**MECHANICAL SPECIFICATIONS**

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

**Immersion tube diameter [mm]:**   
Ø5  
Special

**Extension length L2 [mm]:**   
30  
Special

**Immersion tube length L1 [mm]:**   
20 / 35 / 50  
Special

**Process attachment:**   
Clamp: 3/4" APC  
1 1/2" DN38, ISO2852  
2" DN51, ISO2852  
Special

**Surface area of parts with media contact:**   
Mechanically polished <0,8 µm  
Electro-polished <0,5 µm

**ELECTRICAL SPECIFICATIONS:**

**Sensor type:**  
1xPt100  
2xPt100  
1xPt1000

**Number of conductors:**  
2-wire  
3-wire  
4-wire

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

**Cable type:**  
Cable type SS (Silicone-Silicone) max. 180°C  
Cable type SBS (Silicone-Braid-Silicone) max. 180°C  
Cable type TBT (Teflon-Braid-Teflon) max. 250°C  
Special

**Cable length L3 [mm]**  
2 / 4 / 6 / 10 m  
Special

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

**Date:**

**Part No.:**

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**RT-RC1-C**

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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:**

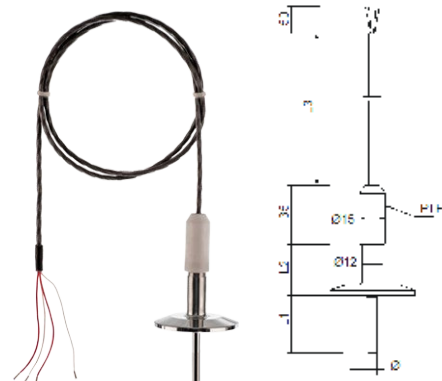
Cold applications (below -50°C) will influence the material and the measurement. CRYO treatment is needed to ensure a correct and working sensor down to -196°C.

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:

- [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**

None

**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

Other on request

Date:

Part No.: