

RESISTANCE THERMOMETER

Measuring insert: Fixed

Type:
RT-RC1

Sheet No.
1-60 V2
5751-E010721V3.1

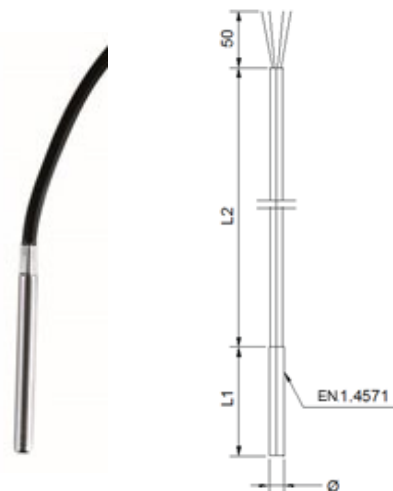


Application:

- All-purpose sensor/ insert
- For measuring temperatures in air-conditioning and cold storage plants
- For tasks that require interchangeable inserts

Properties:

- Resistance thermometer Pt100 or Pt1000 in acc. with IEC 60751
- Process attachment: Thermowell or adjustable coupling
- Outer protective sheath: Stainless acid-proof steel
- Withstands vibrations
- Measuring insert: Fixed



MECHANICAL SPECIFICATIONS

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

Sensor diameter Ø [mm]: -----
Ø6
Special

Nominal length L1 [mm]: -----
60
Special

Process attachment: -----
None
1/4" BSP adjustable coupling
1/2" BSP adjustable coupling
Adjustable flange
Special

Olive (for adjustable coupling): -----
With Teflon
With Steel

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. $\pm(0,15+0,002 \times \text{Tactual})^\circ\text{C}$)
Type B 1/1 DIN (i.e. $\pm(0,3+0,005 \times \text{Tactual})^\circ\text{C}$)
Type B 1/3 DIN (i.e. $\pm(0,1+0,0017 \times \text{Tactual})^\circ\text{C}$)
Type B 1/6 DIN (i.e. $\pm(0,06+0,00083 \times \text{Tactual})^\circ\text{C}$)
Type B 1/10 DIN (i.e. $\pm(0,03+0,0005 \times \text{Tactual})^\circ\text{C}$)
Special

-----Electrical connection:

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

-----Cable length L2 [m]:

2 / 4 / 6 / 10
Special

-----Degree of protection:

IP54
IP67

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

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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.

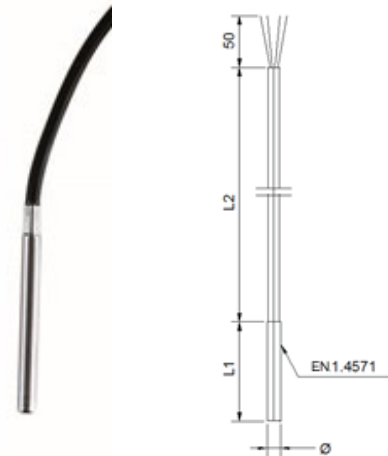
Enhanced performance services:

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

----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

THERMOCOUPLE THERMOMETER
Measuring insert: Fixed

Type:
TC-TC1

Sheet No.
3-55 V2
5750-E010721V3.1

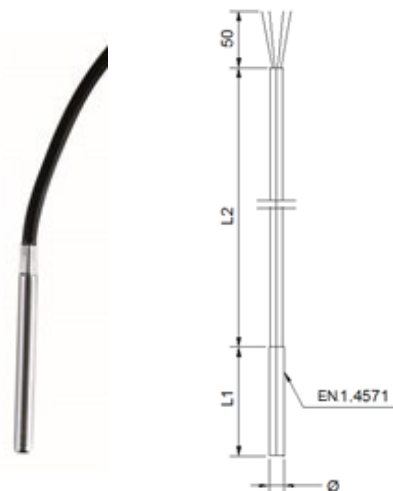


Application:

- All-purpose sensor/ insert
- For measuring temperatures in air-conditioning and cold storage plants
- For tasks that require interchangeable inserts

Properties:

- Thermocouple type J or K in acc. with IEC 60584-1
- Process attachment: Thermowell or adjustable coupling
- Outer protective sheath: Stainless acid-proof steel
- Withstands vibrations
- Measuring insert: Fixed



MECHANICAL SPECIFICATIONS

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

Sensor diameter Ø [mm]: -----
Ø6
Special

Nominal length L1 [mm]: -----
60
Special

Process attachment: -----
None
¼" BSP Adjustable coupling
½" BSP Adjustable coupling
Ø6 mm Adjustable flange
Special

Olive (for adjustable coupling): -----
With Teflon
With Steel

ELECTRICAL SPECIFICATIONS:

-----Sensor element:
Type J (Fe-CuNi) max. +800°C
Type K (NiCr-Ni) max. +1200°C
Special

-----Number of thermocouples:
1xTC
2xTC
Special

-----Media temperature max.:
800°C
1150°C (type K)

-----Tolerance in acc. with DIN 43732:
Class 1 for K, J (±1,5°C eller ±(0,0040 x T)°C)
Class 2 for K, J (±2,5°C eller ±(0,0075 x T)°C)

-----Electrical connection:
Cable type PVC (Plastic-Plastic)
Cable type TT (Teflon-Teflon)
Cable type TGSB (Teflon-Glass-Braid)
Special

-----Cable length L2 [m]:
1 / 3 / 5
Special

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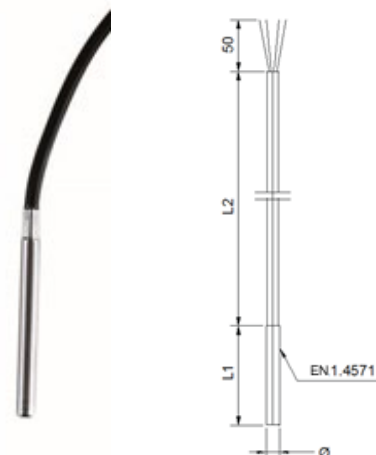
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Other on request