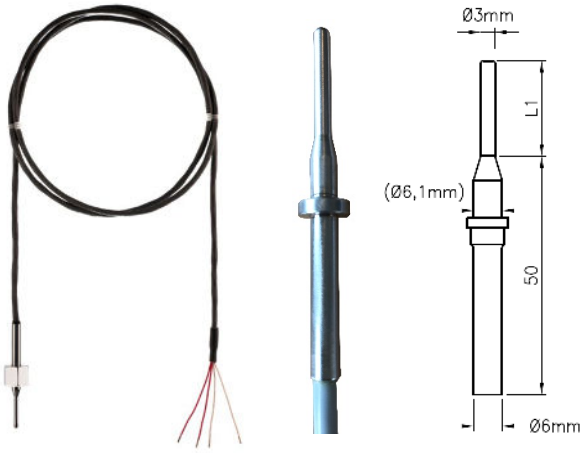
RESISTANCE THERMOMETER **Measuring insert: Fixed.**	**Type:** **RT-RC1-K**	Sheet No. 2-15 V2.1 **5751-E010818V2.1**

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
- Quick reaction time
- IP67



MECHANICAL SPECIFICATIONS

Protective sheath: ----------
Wnr.1.4404 (AISI316L)

Nominal length L1: ----------
20 mm
35 mm
Special

Process attachment: ----------
Turning nipple G1/8 BSP
Turning nipple G3/8 BSP

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

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)
Cable type SBS (Silicone-Braid-Silicone)
Cable type TBT (Teflon-Braid-Teflon)
Special

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

Link for further information: Pt100 Tolerance

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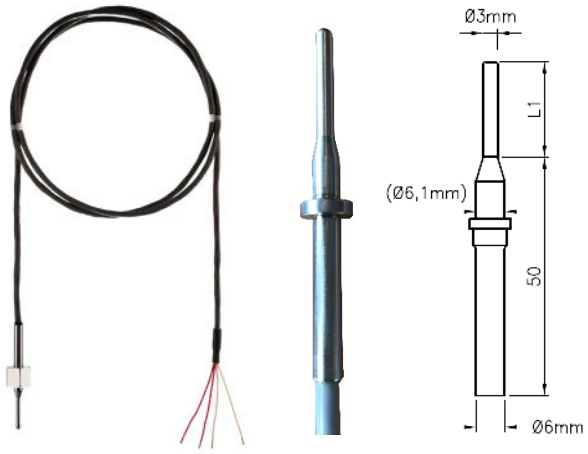
RESISTANCE THERMOMETER **Measuring insert: Fixed**	**Type:** **RT-RC1-K**	Sheet No. 2-15 V2.1 **5751-E010818V2.1**

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:			
4 mA =	C°	20 mA =	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	°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

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