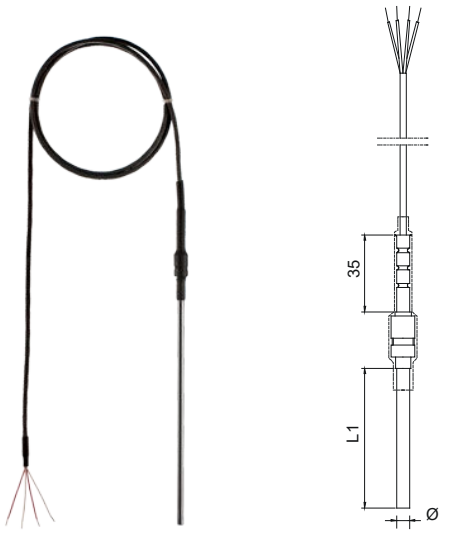
RESISTANCE THERMOMETER **Measuring insert: Fixed** Cable sensor for autoclave.	**Type: RT-RC1** **AUTOCLAVE**	Sheet No. 2-10 V2 **5751-E010721V3.1**

Application:

- This sensor is used for measuring temperatures in autoclaves.

Properties:

- Sensor Pt100, 2xPt100 or Pt1000 in acc. with IEC 60751
- 4 Conductors
- Mechanical and thermal stress in accordance with DIN 43772
- Parts with media contact in EN 14571 (AISI 316Ti)
- Stands media temperatures of up to max. 250°C
- Quick reaction time
- Degree of protection determined by the electrical connection; in this case IP67
- Robust



MECHANICAL SPECIFICATIONS

Protective sheath: ----------
Stainless acid-proof steel,
EN 1.4571 (AISI 316Ti, max. 850°C)

Immersion Tube Diameter Ø: ----------
Ø6 mm
Ø8 mm
Special

Immersion tube length L1: ----------
60 mm
90 mm
120 mm
Special

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

---**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**
TBT (Teflon-Inner Braided-Teflon)
TGSB (Teflon-Glass Fibre-Braided)
Other on request

---**Cable length [m]:**

Link for further information: Pt100 Tolerance

Date:

Part No.

Kjaerulf Pedersen a/s, Taastrupgaardsvej 8-10, DK-2630 Taastrup, Tel.: +45 39760203, Fax: +45 39760501, sensor@kp-as.com, www.kp-as.com

This is provided to you as a service and for information purpose only. While we have attempted to maintain the information as accurately as possible, the page may contain errors or omissions for which we disclaim any and all liability.

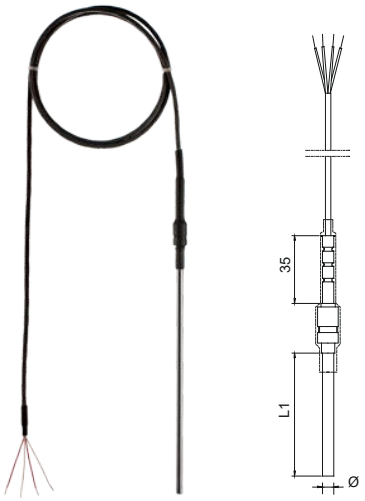
RESISTANCE THERMOMETER **Measuring insert: Fixed** Cable sensor for autoclave.	**Type: RT-RC1** **AUTOCLAVE**	Sheet No. 2-10 V2 **5751-E010721V3.1**

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:
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

Save Print Submit

Date:

Part No.

Kjaerulf Pedersen a/s, Taastrupgaardsvej 8-10, DK-2630 Taastrup, Tel.: +45 39760203, Fax: +45 39760501, sensor@kp-as.com, www.kp-as.com

This is provided to you as a service and for information purpose only. While we have attempted to maintain the information as accurately as possible, the page may contain errors or omissions for which we disclaim any and all liability.