| RESISTANCE THERMOMETER

Process attachment: Clamp-on | **Type:**

KP-COC | Sheet No.
2-5 V2.1

5860-E010818V2.1 | |

Application:
- For measuring temperatures in the food industry and the pharmaceutical, cosmetic and chemical/ technical industries
- Temperature measuring on pipes
- No contact to medium

Properties:
- Clamp-on
- Sensor: Pt100 in acc. with IEC 60751
- Mechanical and thermal stress in acc. with DIN 43772
- Withstands media temperatures of up to max. 150°C
- Quick reaction time with silver bottom
- Reaction $T^{(Tau)\ 0,50}$, 6 – 12sek

MECHANICAL SPECIFICATIONS:

Protective sheath: ----------------------------------
EN 1.4404 (AISI 316L)

Pipe diameter Ø [mm]: ----------------------------
Ø6 mm - Ø25 mm
Special

ELECTRICAL SPECIFICATIONS:

-----Sensor element:
1xPt100

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

-----Temperature range min/max:
-50/+150°C
Special

-----Tolerance in acc. with IEC 60751:
Type A DIN(i.e.±(0,15+0,002xTactual) °C)

-----Cable type:
Silicone (SS)
Silicone Braided Silicon (SBS)
Teflon Braided Teflon (TBT

-----Cable length:
2 m
4 m
6 m
10 m
Special

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°

5350A Profibus standard
5350B Profibus ATEX, FM and CSA

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

Other on request