RESISTANCE THERMOMETER **Measuring insert: Fixed** Process attachment: Clamp-on	**Type:** **RTBC-CO-H**	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
- Degree of protection is determined by electrical connection; in this case of protection head
- Protection head can be turned to point in the desired direction
- Can be delivered with head mounted transmitter
- Reaction $T^{(Tau)\ 0,50}$, 6 – 12sek

MECHANICAL SPECIFICATIONS:

Protective sheath: ----------
Stainless acid-proof steel, EN 1.4404 (AISI 316L)

Pipe diameter: ----------
6 mm - Ø25 mm
Special

Protection head: ----------
SRF (stainless steel, screw cap, cable gland PG9, IP67)
SRF (stainless steel, screw cap, M12x1 Plug, IP67)
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: (pre-mounted in Head):
Silicone (SS)
Silicone Braided Silicone(SBS)
Teflon Braided Teflon (TBT)

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

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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

Ceramic socket mounted in terminal head. ---------- ○

Prepared for transmitter w/o ceramic socket. -------- w/long leads ●

Programmable head 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

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
Certificate of GOST

Other on request

Save Print Submit

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