RESISTANCE THERMOMETER Measuring insert: Fixed



Sheet No. 1-14 V2.1

5850-E010818V2.1



1.4571

Application:

- For measuring and regulating exhaust gas in stationary or maritime
 - ianume
 - diesel engines
 turbines

Properties:

- Media temperatures up to 600°C
- Ambient temperature up to 200°C
- Process attachment: weld-in nipple
- Measuring insert: interchangeable
- Pt100 and Pt1000 resistance thermometer in acc. with IEC 60751, type B1/1DIN
- Mechanical and thermal stress in acc. with DIN 43772
- Cable with clamp, type TGSB (Teflon-Glass Fibre-Braided)
- Constructed to have the greatest possible accuracy and durability during demanding operating conditions
- Outer protective sheath: acid-proof steel
- Marine approved by: DNV.GL, LR, NK, RINA, ABS, and BV
- Approved by: GOST, TCRU on request.

MECHANICAL SPECIFICATIONS

Protective sheath: -----EN 1.4571 (AISI 316Ti) max. 850°C Other on request

Immersion length L1 [mm]: -----

Other on request

Reduced Tip-----50 mm

Other on request

Process attachment: ----

1/2" BSP welded coupling 3/4" BSP welded coupling Other on request

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

SBS (Silicone-Inner Braided-Silicone) max. 180°C TBT (Teflon-Inner Braided-Teflon) max. 250°C TGSB (Teflon-Glass Fibre-Braided) max. 250°C Other on request

---Cable length [m]:

Link for further information: Pt100 Tolerance

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Sheet No. 3-36 V2

5850-E010818V2



Comp.cable

Application:

- For measuring and regulating exhaust gas in stationary or
 - maritime
 - diesel engines 0 0 turbines

Properties:

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- Media temperatures up to 850°C
- Ambient temperature up to 200°C
- Process attachment: Adjustable nipple
- Immersion length: Adjustable •
- Measuring insert: Fixed
- Tolerance in acc. with:
- DIN IEC 584-1, DIN IEC 584-2, DIN 43710
- Constructed to have the greatest possible accuracy and durability during demanding operating conditions
- Outer protective tube: Stainless acid-proof steel
- Marine approved by: DNV, LR, GL, NK, RINA, ABS and BV Approved by: GOST, TCRU on request.

MECHANICAL SPECIFICATIONS:

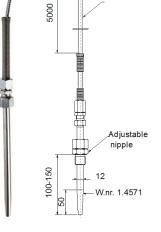
Protective tube: -Thermowell, EN 1.4571 (AISI 316Ti)

Sensor diameter [mm]: -----Ø12 Special

Immersion length L1 [mm]: ------150 / 200 / 250 / 300 Special

Reduced protection tube end on sensor: ----50 mm Special

Process attachment: -----1/2" BSP 3/4" BSP Special



ELECTRICAL SPECIFICATIONS

---Cable

TGSB (Teflon-glass Fibre-braided) SGSB (Silicone-Glass Fibre-Braided) Special

---Cable length [m]:

---Sensor element:

Type K (NiCr-Ni) max. +1150°C Type J (Fe-CuNi) max. +700°C Type E (NiCr-CuNi) max. +800°C Type N (NiCrSi-Ni) max +1250°C Special

---Number of thermocouples: 1xTC 2xTC

--- Tolerance in acc. with DIN 43732: Class 1 for K, J, N, E (i.e. ±1,5°C or ±(0,0040xT) Class 2 for K,J,N,E (i.e. ±2,5°C or ±(0,0075xT) Class 1 for T (i.e. ±0,5°C or ±(0,0040xT) Class 2 for T (i.e. ±1,5°C or ±(0,0075xT)

Link for further information: Pt100 Tolerance

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THERMOCOUPLE THERMOMETER **Measuring insert: Fixed**



Sheet No. 3-36 V2

5850-E010818V2



Comp.cable

Adjustable

nipple

12

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 5334A Uninsulated for TC 5334B Galvanic Isolated TC 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

Trans	mitter 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



00-150 W.nr. 1.4571

5000

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 Certificate of GOST

-----Marine Certificate

Certificate of DNV.GL Certificate of BV Certificate of Rina Certificate of ClassNK Certificate of LR Certificate of ABS

Other on request

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