THERMOCOUPLE THERMOMETER

Measuring insert: Fixed

Type: TEG2-IN 1

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5553-E010818V2.1



Application:

The TC-TEG2-IN 1 is an angular mineral insulated thermocouple insert. It is used for measuring and regulating exhaust gas in connection with stationary or maritime engines. Is used in ship engines worldwide.

Properties:

- Media temperatures up to 850°C
- Ambient temperature up to 200°CC
- Measuring insert: Fixed
 - Tolerance acc. to: DIN IEC 584-1 DIN IEC 584-2 DIN 43710
- Braided cable
- Constructed to have the greatest possible accuracy and durability during demanding operating conditions
- Marine approved by: DNV GL, LR, NK, RINA, ABS, KR and BV
- Approved by: GOST and GOST Metrology



MECHANICAL SPECIFICATIONS:

ELECTRICAL SPECIFICATIONS:

----Sensor type:

Type K (Fe-CuNi) max. +1150°C Special

-----Number of thermocouples:

1xTC 2xTC Special

-----Tolerance in acc. with DIN 43732:

Class 1 Class 2

-----Cable length:

4 m TGSB (Teflon-Glass Fibre-Braided) 5 m TGSB (Teflon-Glass Fibre-Braided) 7 m TGSB (Teflon-Glass Fibre-Braided) 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

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Measuring range min/max: -200/+1800°C

Output: 2-wire, 4-20 mA

Min. span: 25°C

Ambient temperature min/max: -40/+85°C

5334A Uninsulated for RTD

5334D 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

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

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