

THERMOCOUPLE THERMOMETER
Measuring insert: Fixed

Type:
TEG2-IN 2

Sheet No.
3-41 V2.1
5553-E010818V2.1



Application:

The TC-TEG2-IN 2 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°C
- 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:

Protective sheath: -----
EN 2.4816 (NiCr15Fe)

Protective sheath diameter Ø [mm]: -----
Ø4,5 / Ø6
Special

Insert length L1 [mm]: -----
45 / 80 / 138 / 150
Special

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

Marine Box (112x82x42mm) -----

ABS Box (82x80x56mm) -----

NONE -----

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](#)



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
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