

iTEMP TMT72

Temperature transmitter

Transformation of sensor signals into stable and standardized output signals for all industries



More information and current pricing:

www.casc.endress.com/TMT72

Benefits:

- Safe operation in hazardous areas thanks to international approvals
- Reliable operation thanks to sensor and device monitoring
- Integrated Bluetooth® interface for the wireless display of measured values and configuration via E+H SmartBlue (app), optional
- Diagnostics information according to NAMUR NE 107
- Available with plug-on display TID10
- Optimization of the measurement accuracy by sensor-transmitter matching.

Specs at a glance

- **Accuracy** (Pt100, -50...200 °C) ≤ 0,1 K (Pt100, -58...392 °F) ≤ 0,18 °F

Field of application: Unsurpassed reliability, accuracy and long-term stability in critical processes across all industries. The configurable transmitter transfers converted signals from RTD and thermocouple (TC) temperature probes, as well as resistance and voltage signals using HART® communication. Diagnostics information according to NAMUR NE 107. Seamless integration into all major control and asset management systems. Integrated Bluetooth® interface for remote operation via Endress+Hauser SmartBlue App.

Features and specifications

Temperature transmitters

Measuring principle

Head transmitter

Input

1 x RTD, TC, Ohm, mV

Output

1 x analog 4...20 mA

Auxiliary power supply

10...36 V DC (Head transmitter)

11...36 V DC (DIN rail device)

10/11...30 V DC (Ex-version)

Communication

HART-protocol

Bluetooth® wireless technology

Installation

Terminal head form B / DIN rail / in field

Accuracy

(Pt100, -50...200 °C) $\leq 0,1$ K

(Pt100, -58...392 °F) $\leq 0,18$ °F

Galvanic isolation

yes

Temperature transmitters

Certification

ATEX II1G Ex ia IIC T6
 ATEX II3G Ex ic IIC T6 Gc
 ATEX II3D Ex tc IIIC Dc
 ATEX II3G Ex nA IIC T6
 ATEX II2G Ex ia IIC T6, II3D Ex ia IIIC Dc
 ATEX II3G Ex nA IIC T6, II3D
 ATEX II2G Ex db IIC T6 Gb, II2D Ex tb IIIC Db
 CSA C/US General Purpose
 CSA C/US IS, Ex ec I/1+2/A-D
 CSA C/US XP, DIP I, II, III/1+2/A-G
 EAC Ex ia IIC T6 Ga
 EAC Ex d IIC T6 Gb
 IECEX Ex nA IIC T6 Gc
 IECEX Ex d T6 Gb, Ex tb IIIC Db
 INMETRO Ex ia IIC T6 Ga
 INMETRO Ex d T6 Gb, Ex tb IIIC Db
 INMETRO Ex nA IIC T6 Gc
 NEPSI Ex ia IIC T6 Ga
 NEPSI Ex d IIC T6 Gb
 NEPSI Ex nA II T6 Gc
 UK II1G Ex ia IIC T6 Ga
 UK II3D Ex tc IIIC Dc
 UK II2G Ex ia IIC T6 Ga, II3D Ex ia IIIC Dc
 UK II3G Ex nA IIC Gc, II3D Ex tc IIIC Dc
 UK II2G Ex db IIC T6 Gb, II2D Ex tb IIIC Db
 ATEX IECEX II1G Ex ia IIC T6 Ga
 ATEX IECEX II2D Ex tb IIIC Db

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