

# iTEMP TMT71

## Temperature transmitter

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



More information and current pricing:

[www.us.endress.com/TMT71](http://www.us.endress.com/TMT71)

### 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 Endress+Hauser SmartBlue App, optional
- User-friendly guided user interface concept also on-site via Bluetooth®
- Available with plug-on display TID10
- Diagnostics information according to NAMUR NE 107

### 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. The standardized 4 to 20 mA output signal is used for process measurement. Swift and easy commissioning, operation and maintenance via PC software or with integrated Bluetooth® technology and Endress+Hauser SmartBlue App.

### Features and specifications

Temperature transmitters

Measuring principle

Head transmitter

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**Temperature transmitters****Input**1 x RTD, TC, Ohm, mV

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**Output**1 x analog 4...20 mA

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**Auxiliary power supply**

10...36 V DC (Head transmitter)

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

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

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**Communication**

PC-programmable

Bluetooth® wireless technology

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**Installation**Terminal head form B / DIN rail / in field

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

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**Galvanic isolation**yes

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**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 IECEx II1G Ex ia IIC T6, II2D Ex ia IIIC

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, NI 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 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

## Temperature transmitters

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