

# iTEMP TMT84

## Temperature head transmitter

Transformation of sensor signals into standardized digital output signals for all industries



More information and current pricing:

[www.endress.com/TMT84](http://www.endress.com/TMT84)

### Benefits:

- Easy and standardized communication via PROFIBUS® PA Profile 3.02
- Meets the EMC requirements as per NAMUR NE 21 and the recommendations of NE 89 with regard to temperature transmitters with digital signal processing
- Straightforward design of measuring points in Ex-areas through FISCO/FNICO conformity in accordance with IEC 600079-27
- Safe operation in hazardous areas thanks to international approvals such as FM IS, NI, CSA IS, NI as well as ATEX Ex ia, Ex nA (Ex nL)
- High accuracy through sensor-transmitter matching
- Reliable operation with sensor monitoring and device hardware fault recognition
- Rapid no-tools wiring due to optional spring terminal technology

### Specs at a glance

- **Accuracy** (Pt100)  $\leq 0,1$  K (Pt100)  $\leq 0,18$  °F

**Field of application:** Unsurpassed reliability, accuracy and long-term stability in critical processes over all industries. The configurable transmitter not only transfers digital converted signals from RTD and TC sensors, it also transfers resistance and voltage signals using PROFIBUS® PA communication. High measurement point availability by means of sensor monitoring functions. Diagnostics information according to NAMUR NE 107. Optimization of the measurement accuracy by sensor-transmitter matching.

### Features and specifications

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**Temperature transmitters****Measuring principle**Head transmitter

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**Input**2 x RTD, TC, Ohm, mV

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**Output**PROFIBUS PA

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**Auxiliary power supply**

9...32 V DC (PROFIBUS PA)

9...17,5 V DC (FISCO/FNICO)

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**Communication**PROFIBUS PA

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**Installation**Terminal head form B

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**Accuracy**(Pt100)  $\leq 0,1$  K(Pt100)  $\leq 0,18$  °F

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**Galvanic isolation**yes

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**Temperature transmitters****Certification**

ATEX II2D Ex tb IIIC Db

ATEX II1G Ex ia IIC T4/T5/T6

ATEX II3G Ex nA IIC T6

ATEX II3D Ex tc IIIC Dc

ATEX II1G Ex ia IIC T6, II3D

ATEX II3G Ex nA IIC T6, II3D

ATEX II2G Ex d T6, II2D Ex tb  
IIIC

FM+CSA IS, NI I/1+2/ABCD

FM IS, NI I/1+2/ABCD

CSA IS, NI I/1+2/ABCD

CSA XP, NI, DIP I, II, III/1+2/A-G

NEPSI Ex ia IIC T4/T5/T6

NEPSI Ex d IIC T6 Gb

NEPSI Ex nA IIC T4/T5/T6

IECEX Ex ia IIC T4/T5/T6

FM XP, NI, DIP I, II, III/1+2/A-G

IECEX Ex tb IIIC Db

IECEX Ex d T6 Gb, Ex tb IIIC Db

ATEX IECEX II1G Ex ia IIC T6 Ga

## Temperature transmitters

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