

# iTEMP TMT85

## Temperature head transmitter

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



More information and current pricing:

[www.casc.endress.com/TMT85](http://www.casc.endress.com/TMT85)

### Benefits:

- Easy and standardized communication via FOUNDATION Fieldbus™ H1
- 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; ATEX Ex ia, Ex nA for intrinsically safe installation in zone 1 and zone 2
- High accuracy through sensor-transmitter matching
- Reliable operation with sensor monitoring and device hardware fault recognition
- Several mounting versions and sensor connection combinations
- 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 FOUNDATION Fieldbus™ communication. High measurement point availability by means of sensor monitoring functions and device hardware fault recognition. 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**

FOUNDATION Fieldbus H1

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**Auxiliary power supply**

9...32 V DC (FOUNDATION  
Fieldbus)

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

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**Communication**

FOUNDATION Fieldbus H1

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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  
FM+CSA IS  
CSA C/US General Purpose  
FM IS  
CSA IS  
CSA XP  
NEPSI  
IECEX  
FM XP  
EAC  
INMETRO  
ATEX IECEX

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