

# iTEMP TMT82 HART® 7 temperature transmitter

Dual channel, SIL compliant temperature transmitter for use in hazardous areas



More information and current pricing:

[www.endress.com/TMT82](http://www.endress.com/TMT82)

## Benefits:

- Robust temperature transmitter delivering precise, long-term stable measurements for high plant availability
- SIL certification up to SIL2, SC3 according to IEC 61508:2010
- Versatile mounting and housing options: terminal head form B, DIN rail, field housing with separate terminal compartment, integrated display (**TID10**)
- Transmitter-sensor matching for highest measurement accuracy
- Sensor and hardware failure detection; diagnostic status information according to NAMUR NE 107
- Time-saving installation: Tool-free wiring with push-in terminal technology

## Specs at a glance

- **Accuracy** (Pt100)  $\leq 0,1K$  (digital) + 0,03% (set range)

**Field of application:** The iTEMP TMT82 is a highly reliable, accurate and long-term stable temperature transmitter for industrial processes requiring high availability. The versatile 2-channel device converts universal sensor inputs such as thermocouples or RTD into stable, scalable 4 to 20 mA output signals and **HART**® communication. With its built-in smart sensor monitoring capability and diagnostic status information according to NAMUR NE 107, the **SIL** 2, SC3 certified transmitter increases process safety and uptime.

## Features and specifications

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

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**Input**2 x RTD, TC

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

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**Auxiliary power supply**11...42 V DC

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**Communication**HART-protocol

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**Installation**Terminal head form B, DIN-Rail housing or field mount housing

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**Accuracy**(Pt100)  $\leq 0,1K$  (digital) + 0,03% (set range)

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**Galvanic isolation**yes

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

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