# iTEMP HART TMT142

More information and current pricing:
www.endress.com/TMT142

**Benefits:**

- Illuminated display, rotatable
- Operation, visualization and maintenance with PC, e.g. using FieldCare operating software
- Sensor monitoring: Failure conditioning, corrosion detection to NAMUR NE 89 and in event of sensor break or sensor short-circuit, NAMUR NE 43 compliant
- Stainless steel housing for Ex d applications, optional
- Approvals: ATEX (Ex ia, Ex d and dust ignition-proof), FM and CSA (IS, NI, XP and DIP)
- Galvanic isolation
- Min./max. process value recorded

## Specs at a glance

- **Accuracy** (Pt100, -50...200 °C) <=0,15 K (Pt100, -58...392 °F) <=0,3 °F

**Field of application:** Unsurpassed reliability, accuracy and long-term stability in critical processes over all industries. The configurable transmitter not only transfers converted signals from RTD sensors and thermocouples, but also resistance and voltage signals using HART® communication. It visualizes the signals on its own backlit display. A rugged field housing allows a direct connection in the process areas. Moreover, a swift and easy operation and maintenance can be realized by PC using operating software.

## Features and specifications

### Temperature transmitters

**Measuring principle**

**Input**

1 x RTD, TC, Ohm, mV

## Temperature transmitters

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

**Auxiliary power supply**
10,5...40 V DC (standard-version)
10,5...30 V DC (Ex-version)

**Communication**
HART-protocol

**Installation**
in field

**Accuracy**
(Pt100, -50...200 °C) <=0,15 K
(Pt100, -58...392 °F) <=0,3 °F

**Galvanic isolation**
yes

Temperature transmitters

**Certification**

UL rec. Comp
ATEX II1G Ex ia IIC T6
ATEX II2G Ex d IIC T6
ATEX II3G Ex nA IIC T6
ATEX IECEx II2D Ex tb IIIC Db
ATEX II1G Ex ia IIC T6, II2D Ex ia IIIC
FM IS, NI I/1+2/A-D
CSA IS, NI I/1+2/A-D
FM XP, NI, DIP I,II,III/1+2/A-G
CSA XP, NI, DIP I,II,III/1+2/A-G
CSA General Purpose
IECEx Ex ia IIC T6 Ga
IECEx Ex d IIC T6 Gb
NEPSI Ex ia IIC T4-T6
NEPSI Ex nA II T4-T6
NEPSI Ex d IIC T4-T6
EAC Ex ia IIC T6 Ga
EAC Ex d IIC T6 Gb
TIIS Ex ia IIC T4
TIIS Ex ia IIC T6
TIIS Ex d IIC T6

More information **www.endress.com/TMT142**

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