

# iTEMP TMT182

## Temperature head transmitter

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



More information and current pricing:

[www.endress.com/TMT182](http://www.endress.com/TMT182)

### Benefits:

- Front end unit or panel unit operation using the hand operating module or PC
- High accuracy in total ambient temperature range
- Fault signal on sensor break or short circuit, NAMUR NE 43 compliant
- EMC to NAMUR NE 21, CE
- Ex-Certification: ATEX Ex ia and dust zone 22 in compliance with EN 50281-1; FM IS; CSA IS
- Galvanic isolation
- Marine approval

### Specs at a glance

- **Accuracy** (Pt100, -50...200 °C)  $\leq 0,2 \text{ K}$  (Pt100, -58...392 °F)  $\leq 0,4 \text{ °F}$

**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 resistance thermometers (RTD) and thermocouples (TC), it also transfers resistance and voltage signals using HART® communication. It can be installed as an intrinsically safe apparatus in Zone 1 hazardous areas. Swift and easy operation, visualization and maintenance by PC using operating software.

### Features and specifications

## Temperature transmitters

### Measuring principle

Head transmitter

### Input

1 x RTD, TC, Ohm, mV

### Output

1 x analog 4...20 mA

### Auxiliary power supply

11,5...35 V DC (standard-version)

11,5...30 V DC (Ex-version)

### Communication

HART-protocol

### Installation

Terminal head form B

### Accuracy

(Pt100, -50...200 °C)  $\leq 0,2$  K

(Pt100, -58...392 °F)  $\leq 0,4$  °F

### Galvanic isolation

yes

**Temperature transmitters****Certification**

UL Ex IS  
UL Ex NI  
Marine approval  
GOST Ex i  
FM IS,NI,Class I,Div.1+2,Group ABCD  
CSA IS,NI,Class I,Div.1+2,Group ABCD  
ATEX II1G Ex ia IIC T4/T5/T6  
ATEX II3G Ex nA IIC T4/T5/T6  
ATEX II3D  
ATEX II1G Ex ia IIC T6, II3D  
ATEX II3G Ex nA IIC T6, II3D  
FM+CSA IS,NI,Class I,Div.1+2,Group  
ABCD  
CSA General Purpose  
IECEX Ex ia IIC T6/T5/T4  
ATEX IECEX II1G Ex ia IIC T6 Ga  
NEPSI Ex ia IIC T4-T6  
NEPSI Ex nA II T4-T6  
EAC Ex ia  
GL (German Lloyd)

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