

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

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) $\leq 0,2$ K (Pt100, -58...392 °F) $\leq 0,4$ °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)

Temperature transmitters

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