

iTEMP TMT31 head mount temperature transmitter

Accurate and reliable process temperature measurements for RTD sensors



More information and current pricing:

www.cz.endress.com/TMT31

Benefits:

- Push-in terminals for fast, tool-free wiring during installation or maintenance
- Simple parametrization via free software tools (requires FXA291 or TXU10)
- Transmitter-sensor matching using Callendar-Van Dusen linearization for critical measurement points
- Improved RTD measurement accuracy up to 0.1 K and long-term stability
- Diagnostics information according to NAMUR NE 107
- Ready-to-use: Factory pre-configured

Specs at a glance

- **Accuracy** (Pt100,Pt1000, -50...+250°C) $\leq 0,1$ K (Pt100,Pt1000, -58...+482°F) $\leq 0,18$ °F

Field of application: The iTEMP TMT31 is a reliable, long-term stable, single-channel 4 to 20 mA temperature transmitter for thermometers with terminal head Form B suited for use in Zone 2 / Div. 2 areas. Individual transmitter-sensor matching with Callendar-Van Dusen linearization further improves your temperature measurement accuracy for RTD sensors. Push-in terminals for quick wiring facilitate installation. The device is available pre-configured or can easily be parametrized using free software tools.

Features and specifications

Temperature transmitters

Measuring principle

Head transmitter

Input

Pt100

Pt1000

Output

1 x analog 4-20mA

Auxiliary power supply

10...36 V DC

Communication

PC-programmable

Installation

Terminal head form B

Accuracy

(Pt100,Pt1000, -50...+250°C) $\leq 0,1$ K

(Pt100,Pt1000, -58...+482°F) $\leq 0,18$ ° F

Galvanic isolation

no

Certification

ATEX II3G Ex ec IIC Gc

CSA C/US General Purpose

CSA C/US NI Cl.I Div.2 Gr.A-D,Ex ec IIC Gc

ATEX II3G Ex ec IIC Gc + CSA C/US Ex ec IIC

Gc

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