iTEMP TMT31 temperature transmitter

4-20 mA temperature transmitter as head or DIN rail device with one RTD or one TC sensor input suitable for use in zone 2 (Ex ec) / Div. 2 areas

Benefits:

- Push-in terminals for fast and tool-free wiring during installation or maintenance
- Optimization of the accuracy of the measuring point through sensor-transmitter-matching (CvD)
- Diagnostic information according to NAMUR NE107
- Increased safety through Ex approvals

Specs at a glance

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

from **CA$300.21**
Price as of 22.01.2026

More information and current pricing:

www.ca.endress.com/TMT31

Field of application: The iTEMP TMT31 4-20 mA temperature transmitter is designed for customers in all industries who want to easily select, order, install and operate simple products. It is a reliable, long-term stable, single-channel 4-20 mA temperature transmitter for modular thermometers with form B connection head or for installation in control cabinets with DINrail mounting. The capable iTEMP TMT31 can be used with either all Pt100 and Pt1000 RTD sensors, or all common thermocouple sensors.

Features and specifications

Temperature transmitters

Measuring principle
Head transmitter

Temperature transmitters

Input
1x Pt100 / Pt1000, TC

Output
1 x analog 4...20 mA

Auxiliary power supply
10...36 V DC

Communication
pc-programmable

Installation
Terminal head form B / DIN rail

Accuracy
(Pt100,Pt1000, -50...+250℃) <= 0,1 K
(Pt100,Pt1000, -58...+482℉) <= 0,18˚ F

Galvanic isolation
Yes (TC)

Certification
DNV (GL) marine approval
ATEX Ex ec
CSA C/US General Purpose
CSA C/US NI, Ex ec
ATEX+ CSA C/US Ex ec
Non-hazardous area + KC marking (Head, DinRail)

More information **www.ca.endress.com/TMT31**