

iTEMP TMT86 temperature transmitter

PROFINET® temperature transmitter as head or field device with two universal sensor inputs suitable for use in hazardous areas with Ethernet-APL™



More information and current pricing:

www.us.endress.com/TMT86

Benefits:

- Digital communication down to the field level, even in explosive atmospheres
- Easy and standardized system integration via PROFINET® Profile 4
- Integrated web server offers simplicity during commissioning and maintenance
- High accuracy of measuring point through sensor-transmitter matching
- Reliable operation with sensor monitoring and device hardware fault recognition
- Fast and tool-free wiring thanks to push-in terminal technology, optional
- Attachable measured value display, optional

Specs at a glance

- **Accuracy** (Pt100, -50...200 °C) ≤ 0,1 K (Pt100, -58...392 °F) ≤ 0,18 °F

Field of application: The iTEMP TMT86 is a reliable, intelligent and future proof dual-channel Ethernet-APL PROFINET temperature head transmitter for thermometers with terminal head form B and is suitable for use in hazardous areas. Beneficial diagnostic functions like corrosion monitoring of the sensor wires help to improve the plant up-time. The embedded webserver and the up-to-date FDI package simplifies the device configuration and integration.

Features and specifications

Temperature transmitters

Measuring principle

Head transmitter

Input

2 x RTD, TC, Ohm, mV

Output

PROFINET

Auxiliary power supply

9,6...15 V DC (Ethernet-APL)

20...30 V DC (SPE)

Communication

PROFINET with Ethernet-APL

Installation

Terminal head form B / in field

Accuracy

(Pt100, -50...200 °C) $\leq 0,1$ K

(Pt100, -58...392 °F) $\leq 0,18$ °F

Galvanic isolation

yes

Certification

ATEX Ex ia, Ex ic, Ex tc, Ex ec, Ex db, Ex tb

ATEX IECEx Ex ia, Ex tb

IECEx Ex d, Ex tb

CSA C/US General Purpose

CSA C/US IS, NI, XP, DIP, AEx/Ex ia, NI, AEx/Ex ec

INMETRO Ex ia, Ex d, Ex tb

NEPSI Ex ia, Ex d

Non-hazardous area + KC marking (Head, Field)

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