

iTEMP TMT84 temperature transmitter

PROFIBUS® temperature transmitter as head or field device with two universal sensor inputs suitable for use in hazardous areas



Benefits:

- Easy and standardized communication via PROFIBUS® PA Profile 3.02
- Meets the EMC requirements as per NAMUR NE 21 and the recommendations of NE 89 with regard to temperature transmitters with digital signal processing
- Straightforward design of measuring points in Ex-areas through FISCO/FNICO conformity in accordance with IEC 600079-27
- Safe operation in hazardous areas thanks to international approvals such as FM IS, NI, CSA IS, NI as well as ATEX Ex ia, Ex nA (Ex nL)
- High accuracy through sensor-transmitter matching
- Reliable operation with sensor monitoring and device hardware fault recognition
- Rapid no-tools wiring due to optional spring terminal technology

More information and current pricing:

www.us.endress.com/TMT84

Specs at a glance

- **Accuracy** (Pt100) $\leq 0,1$ K (Pt100) $\leq 0,18$ °F

Field of application: Unsurpassed reliability, accuracy and long-term stability in critical processes over all industries. The configurable transmitter not only transfers digital converted signals from RTD and TC sensors, it also transfers resistance and voltage signals using PROFIBUS® PA communication. High measurement point availability by means of sensor monitoring functions. Diagnostics information according to NAMUR NE 107. Optimization of the measurement accuracy by sensor-transmitter matching.

Features and specifications

Temperature transmitters

Measuring principle

Head transmitter

Input

2 x RTD, TC, Ohm, mV

Output

PROFIBUS PA

Auxiliary power supply

9...32 V DC (PROFIBUS PA)

9...17,5 V DC (FISCO/FNICO)

Communication

PROFIBUS PA

Installation

Terminal head form B

Accuracy

(Pt100) $\leq 0,1$ K

(Pt100) $\leq 0,18$ °F

Galvanic isolation

yes

Temperature transmitters

Certification

ATEX Ex ic, Ex tb, Ex ia, Ex nA, Ex tc, Ex d

ATEX IECEX Ex ia

IECEX Ex ia, Ex tb, Ex d

CSA C/US General Purpose

CSA IS, NI, XP, DIP

FM IS, NI, XP, DIP

FM+CSA IS, NI

INMETRO Ex ia [ia Ga], Ex d, Ex tb

NEPSI Ex ia, Ex d, Ex tb

EAC Ex ia, Ex d

UKCA Ex tb, Ex tc, Ex ia, Ex nA, Ex db

IND Ex

PESO Ex

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

More information www.us.endress.com/TMT84