

iTEMP TMT85 temperature transmitter

FOUNDATION Fieldbus™ temperature transmitter as head or field device with two universal sensor inputs suitable for use in hazardous areas



More information and current pricing:

www.us.endress.com/TMT85

Benefits:

- Easy and standardized communication via FOUNDATION Fieldbus™ H1
- Straightforward design of measuring points in Ex-areas through FISCO/FNICO conformity in accordance with IEC 60079-27
- Safe operation in hazardous areas thanks to international approvals such as FM IS, NI; CSA IS, NI; ATEX Ex ia, Ex nA for intrinsically safe installation in zone 1 and zone 2
- High accuracy through sensor-transmitter matching
- Reliable operation with sensor monitoring and device hardware fault recognition
- Several mounting versions and sensor connection combinations
- Rapid no-tools wiring due to optional spring terminal technology

Specs at a glance

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

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 FOUNDATION Fieldbus™ communication. High measurement point availability by means of sensor monitoring functions and device hardware fault recognition. 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

FOUNDATION Fieldbus H1

Auxiliary power supply

9...32 V DC (FOUNDATION Fieldbus)

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

Communication

FOUNDATION Fieldbus H1

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 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

FM+CSA IS, NI + ATEX IECEx Ex ia

INMETRO Ex ia, Ex d, Ex tb

NEPSI Ex ia, Ex ec, Ex d, Ex tb

EAC Ex ia, Ex d

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

IND Ex

PESO Ex

More information www.us.endress.com/TMT85