

iTEMP TMT162 temperature transmitter

HART®, FOUNDATION Fieldbus™ or PROFIBUS® temperature field transmitter with two universal sensor inputs suitable for use in hazardous areas and SIL 2



More information and current pricing:

www.us.endress.com/TMT162

Benefits:

- High reliability in harsh industrial environments due to dual compartment housing and compact, fully potted electronics
- Backlit display with large measured value, bar graph and status condition indication
- Diagnostics information according to NAMUR NE107
- International approvals such as FM, CSA (IS, NI, XP and DIP) and ATEX (Ex ia, Ex nA nL, Ex d and dust ignition-proof); marine approval
- SIL certification as per IEC 61508:2010
- Galvanic isolation 2 kV (sensor input / current output)

Specs at a glance

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

Field of application: Unsurpassed reliability, accuracy and long-term stability in critical processes. The remote configurable transmitter transfers and monitors converted signals from RTD sensors and thermocouples as well as from resistance and voltage signals using selectively HART®, FOUNDATION Fieldbus™-, PROFIBUS® PA-communication. It visualizes the signals on its own backlit display. A field housing allows a direct connection in harsh process areas as well as in hygienic applications as option.

Features and specifications

Temperature transmitters

Measuring principle

Field transmitter

Input

2 x RTD, TC, Ohm, mV

Output

1 x analog 4...20 mA / HART

FOUNDATION Fieldbus H1

PROFIBUS PA

Auxiliary power supply

11,5...42 V DC (HART)

11,5...30 V DC (Ex ia)

9...32 V DC (FF, PA)

10,5...24 V DC (Ex ia, FF, PA)

Communication

HART

FOUNDATION Fieldbus

PROFIBUS PA

Installation

in field

Accuracy

(Pt100) $\leq 0,1$ K (HART, FF, PA)

(Pt100) $\leq 0,18$ °F (HART, FF, PA)

Galvanic isolation

yes

Temperature transmitters

Certification

UL rec. Comp (HART)
marine approval only for HART-
protocol
SIL2/3 only for HART-protocol
ATEX Ex ia, Ex d, Ex tb, Ex ic, Ex nA
ATEX IECEX Ex tb
IECEX Ex ia, Ex d, Ex tb
CSA IS, NI, XP, DIP
CSA General Purpose
FM IS, NI, XP, DIP
FM+CSA XP,DIP, IS, NI
INMETRO Ex ia, Ex db, Ex tb
NEPSI Ex ia, Ex nA, Ex d
EAC Ex ia, Ex d
UKCA Ex db, Ex ia, Ex nA
PESO Ex ia
IND Ex ia
KC

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