

iTEMP TMT162

Temperature field transmitter

Electronic monitoring, conversion and display of input signals - all over the industries



More information and current pricing:

www.ch.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, -50...200 °C) $\leq 0,15$ K (HART) (Pt100, -58...392 °F) $\leq 0,3$ °F (HART) (Pt100) $\leq 0,1$ K (FF, PA) (Pt100) $\leq 0,18$ °F (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

FOUNDATION Fieldbus H1
PROFIBUS PA

Auxiliary power supply

11,5...42 V DC
Ex ia: 11,5...30 V DC
FOUNDATION Fieldbus:
9...32 V DC
Ex ia: 10,5...24 V DC
PROFIBUS PA:
9...32 V DC
Ex ia: 10,5...24 V DC

Communication

FOUNDATION Fieldbus
PROFIBUS PA

Installation

in field

Accuracy

(Pt100, -50...200 °C) $\leq 0,15$ K (HART)
(Pt100, -58...392 °F) $\leq 0,3$ °F (HART)
(Pt100) $\leq 0,1$ K (FF, PA)
(Pt100) $\leq 0,18$ °F (FF, PA)

Galvanic isolation

yes

Temperature transmitters

Certification

UL rec. Comp
FM IS, NI I/1+2/ABCD
CSA IS, NI I/1+2/ABCD
ATEX II1G Ex ia IIC T6
ATEX II2G Ex d IIC T6
ATEX II3G Ex nA IIC T6
ATEX II3G Ex ic IIC T6
ATEX IECEX II2D Ex tb IIIC Db
ATEX II1G Ex ia IIC T6, II2D Ex ia IIIC
FM XP, NI, DIP I,II,III/1+2/A-G
CSA XP, NI, DIP I,II,III/1+2/A-G
FM XP, DIP, IS, NI I,II,III/1+2/A-G
CSA XP, DIP, IS, NI I,II,III/1+2/A-G
FM+CSA XP,DIP, IS, NI I,II,III/1+2/A-G
CSA General Purpose
IECEX Ex d IIC T6 Gb
IECEX Ex ia, Ex d
NEPSI Ex ia IIC T4-T6
NEPSI Ex nA II T4-T6
NEPSI Ex d IIC T4-T6
TIIS Ex ia IIC T4
TIIS Ex ia IIC T6
TIIS Ex d IIC T6
Marine approval only for HART-
protocol
SIL2/3 only for HART-protocol
EAC Ex ia IIC T6 Ga
EAC Ex d IIC T6 Gb

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