

iTEMP TMT142B HART[®] 7 temperature transmitter

Smart, rugged, innovative: New generation temperature field transmitter with Bluetooth[®]



More information and current pricing:

www.us.endress.com/TMT142B

Benefits:

- Certified for use in hazardous areas: CSA (IS, NI, XP and DIP), ATEX, INMETRO, NEPSI (Ex ia, Ex d, dust ignition-proof)
- Reliable, long-term stable and accurate temperature measurement even under harsh environmental conditions thanks to a pressure-encapsulated single-chamber housing and integrated overvoltage protection
- Bluetooth[®] interface: Save time and effort on commissioning, configuration and maintenance using the Endress+Hauser SmartBlue app
- Predictive maintenance with advanced diagnostic functions and condensed status notification according to NAMUR NE 107
- Newly developed backlit display with large digits for clear process information under all ambient conditions

Specs at a glance

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

Field of application: The single-channel iTEMP TMT142B transmitter with backlit display delivers highly reliable, accurate and long-term stable measurements in critical processes and hazardous areas. It offers **secure** remote operation via its integrated Bluetooth[®] interface (**Endress+Hauser SmartBlue app**), packaged in a robust single-chamber field housing. It converts inputs from resistance sensors (RTD), thermocouple (TC), resistances (Ω) and voltage transmitters (mV) to a 4 to 20 mA signal and **HART[®] 7 communication**.

Features and specifications

Temperature transmitters

Measuring principle

Field transmitter

Input

1 x RTD, TC, Ohm, mV

Output

1 x analog 4...20 mA

Auxiliary power supply

11...36 V DC (standard-version)

11...30 V DC (Ex-version)

Communication

HART-protocol

Bluetooth® wireless technology

Installation

in field

Accuracy

(Pt100, -50...200 °C) $\leq 0,1$ K

(Pt100, -58...392 °F) $\leq 0,18$ °F

Galvanic isolation

yes

Temperature transmitters

Certification

ATEX II1G Ex ia IIC T6
ATEX II3G Ex ic IIC T6 Gc
ATEX II3D Ex tc IIIC Dc
ATEX II3G Ex nA IIC T6
ATEX IECEX II1G Ex ia IIC T6, II2D Ex ia IIIC
ATEX II3G Ex nA IIC T6, II3D
ATEX II2G Ex db IIC T6 Gb, II2D Ex tb IIIC
Db
CSA C/US General Purpose
CSA C/US IS, NI I/1+2/A-D
CSA C/US XP, NI, DIP I, II, III/1+2/A-G
EAC Ex ia IIC T6 Ga
EAC Ex d IIC T6 Gb
IECEX Ex d T6 Gb, Ex tb IIIC Db
INMETRO Ex ia IIC T6 Ga
INMETRO Ex d T6 Gb, Ex tb IIIC Db
INMETRO Ex nA IIC T6 Gc
NEPSI Ex ia IIC T6 Ga
NEPSI Ex d IIC T6 Gb
NEPSI Ex nA II T6 Gc
ATEX IECEX II1G Ex ia IIC T6 Ga
ATEX IECEX II2D Ex tb IIIC Db
Non-hazardous area + EAC marking

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