

iTEMP TMT142B temperature transmitter

HART® temperature field transmitter with one universal sensor input suitable for use in hazardous areas and with Bluetooth® communication



More information and current pricing:

www.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 / HART

Auxiliary power supply

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

11...30 V DC (Ex ia)

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 Ex ia, Ex ic, Ex tc, Ex nA, Ex db, Ex tb

ATEX IECEx Ex ia, Ex tb, Ex db

IECEx Ex d, Ex tb

CSA C/US General Purpose

CSA C/US IS, NI, XP, DIP

INMETRO Ex ia, Ex d, Ex tb

NEPSI Ex ia, Ex d

EAC Ex ia, Ex d

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

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