iTEMP TMT82 HART® 7 temperature transmitter

Dual channel, SIL compliant temperature transmitter for use in hazardous areas

FLEX

More information and current pricing:

www.endress.com/TMT82

Benefits:

- Robust temperature transmitter delivering precise, long-term stable measurements for high plant availability
- SIL certification up to SIL2, SC3 according to IEC 61508:2010
- Versatile mounting and housing options:
  terminal head form B, DIN rail, field housing with separate terminal compartment, integrated display (**TID10**)
- Transmitter-sensor matching for highest measurement accuracy
- Sensor and hardware failure detection; diagnostic status information according to NAMUR NE 107
- Time-saving installation: Tool-free wiring with push-in terminal technology

Specs at a glance

- **Accuracy** (Pt100) <= 0,1K (digital) + 0,03% (set range)

Field of application: The iTEMP TMT82 is a highly reliable, accurate and long-term stable temperature transmitter for industrial processes requiring high availability. The versatile 2-channel device converts universal sensor inputs such as thermocouples or RTD into stable, scalable 4 to 20 mA output signals and **HART**® communication. With its built-in smart sensor monitoring capability and diagnostic status information according to NAMUR NE 107, the **SIL** 2, SC3 certified transmitter increases process safety and uptime.

Features and specifications

Endress+Hauser

Temperature transmitters

Measuring principle

Head transmitter

Input

2 x RTD, TC

Output

1 x analog 4...20 mA / HART

Auxiliary power supply

11...42 V DC

Communication

HART-protocol

Installation

Terminal head form B, DIN-Rail housing or field mount housing

Accuracy

(Pt100) <= 0,1K (digital) + 0,03% (set range)

Galvanic isolation

yes

Temperature transmitters

Certification

Non-hazardous area

ATEX

CSA

FM

EAC

IECEx

NEPSI

FM+CSA

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