

iTEMP TMT187

Temperature head transmitter

Transformation of the sensor signal into a stable and standardized output signal for all industries



from **CA\$210.00**

Price as of 28.11.2022

More information and current pricing:

www.ca.endress.com/TMT187

Benefits:

- High accuracy in complete ambient temperature range
- Failure information when sensor breaks or short-circuits as per NAMUR NE 43
- EMC as per NAMUR NE 21, CE
- Ex approval: ATEX Ex ia and dust zone 22 in compliance with EN 50281-1; FM IS; CSA IS
- UL recognized component to UL 3111-1
- Marine approval
- Galvanic isolation

Specs at a glance

- **Accuracy** (Pt100, -50...200 °C) $\leq 0,2$ K (Pt100, -58...392 °F) $\leq 0,4$ °F

Field of application: The transmitter is designed for the transformation of an RTD Pt100 sensor signal in a fixed measuring range. The standardized output signal used for process measurement is a 4 to 20 mA signal. This means fast, easy and cost-saving temperature measuring as well as reliable and precise measured values for for a wide range of industry applications.

Features and specifications

Temperature transmitters

Measuring principle

Head transmitter

Temperature transmitters

Input

1 x RTD (Pt100)

Output

1 x analog 4...20 mA

Auxiliary power supply

8...35 V DC (standard-version)

8...30 V DC (Ex-version)

Installation

Terminal head form B

Accuracy

(Pt100, -50...200 °C) $\leq 0,2$ K

(Pt100, -58...392 °F) $\leq 0,4$ °F

Galvanic isolation

yes

Certification

UL Ex IS

UL Ex NI

GOST Ex i

GL ship approval

GOST Metrology

FM IS,NI,Class I,Div.1+2,Group ABCD

CSA IS,NI,Class I,Div.1+2,Group ABCD

ATEX II3G Ex nA IIC T4/T5/T6

ATEX II1G EEx ia IIC T4/T5/T6

ATEX II3D

ATEX II1G EEx ia IIC T6, II3D

ATEX II3G Ex nA II T6, II3D

FM+CSA IS,NI,Class I,Div.1+2,Group

ABCD

CSA General Purpose

EAC Ex ia IIC T6 Ga

GL (German Lloyd)

More information www.ca.endress.com/TMT187