

# iTEMP TMT187

## Temperature head transmitter

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



### 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

from **A\$146.00**

Price as of 05.08.2021

More information and current pricing:

[www.au.endress.com/TMT187](http://www.au.endress.com/TMT187)

**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

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**Temperature transmitters****Input**1 x RTD (Pt100)

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**Output**1 x analog 4...20 mA

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**Auxiliary power supply**

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

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

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**Installation**Terminal head form B

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

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**Galvanic isolation**yes

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**Temperature transmitters****Certification**

UL rec. Comp

UL Ex IS

UL Ex NI

GOST Ex i

Marine 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

NEPSI Ex ia IIC T4-T6

NEPSI Ex nA II T4-T6

GL (German Lloyd)

## Temperature transmitters

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