

iTEMP TMT188 temperature transmitter

4-20 mA temperature head transmitter with one TC sensor input suitable for use in hazardous areas



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** (Type K) $\leq 0,5$ K (Type K) $\leq 0,9$ °F

Field of application: The transmitter is designed for the transformation of a thermocouple (TC) 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 a wide range of industry applications.

Features and specifications

Temperature transmitters

Measuring principle

Head transmitter

from **€112.00**

Price as of 26.08.2025

More information and current pricing:

www.endress.com/TMT188

Temperature transmitters

Input

1 x TC

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(Type K) $\leq 0,5$ K(Type K) $\leq 0,9$ °F**Galvanic isolation**

yes

Certification

UL Ex IS

UL Ex NI

GOST Ex i

GL marine approval

GOST Metrology

GL (German Lloyd)

ATEX EEx ia, Ex nA, Ex tc, Ex
ia

CSA IS, NI

CSA General Purpose

FM IS, NI

FM+CSA IS, NI

EAC Ex ia

More information www.endress.com/TMT188