

iTEMP TMT121

DIN rail temperature transmitter

Transformation of sensor signals into stable and standardized output signals for all industries



More information and current pricing:

www.apsc.endress.com/TMT121

Benefits:

- High accuracy in total ambient temperature range
- Fault signal on sensor break or short circuit, NAMUR NE 43 compliant
- Safe operation in hazardous areas - International approvals such as ATEX Ex ia, NEPSI, FM IS, CSA IS
- EMC to NAMUR NE 21, CE
- Online configuration during measurement
- Galvanic isolation
- Output simulation

Specs at a glance

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

Field of application: Unsurpassed reliability, accuracy and long-term stability in critical processes over all industries. The configurable transmitter not only transfers converted signals from resistance thermometers (RTD) and thermocouples (TC), it also transfers resistance and voltage signals. The standardized output signal is a 4 to 20 mA signal. Swift and easy operation, visualization and maintenance by PC using operating software. Installation is realized on DIN rail as per IEC 60715 (housing width: 22.5 mm)

Features and specifications

Temperature transmitters

Measuring principle

Rail transmitter

Input

1 x RTD, TC, Ohm, mV

Output

1 x analog 4...20 mA

Auxiliary power supply

12...35 V DC (standard-version)

12...30 V DC (Ex-version)

Communication

PCP (pc-programmable)

Installation

DIN rail

Accuracy

(Pt100, -50...200 °C) $\leq 0,2$ K

(Pt100, -58...392 °F) $\leq 0,4$ °F

Galvanic isolation

yes

Certification

UL rec. Comp

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 II2(1)G Ex ia[ia Ga] IIC T6 Gb

ATEX II3G Ex nA IIC T6

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

Temperature transmitters

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