iTEMP TMT84
Temperature head transmitter

Transformation of sensor signals into standardized digital output signals for all industries

More information and current pricing:
www.de.endress.com/TMT84

Benefits:

- Easy and standardized communication via PROFIBUS® PA Profile 3.02
- Meets the EMC requirements as per NAMUR NE 21 and the recommendations of NE 89 with regard to temperature transmitters with digital signal processing
- Straightforward design of measuring points in Ex-areas through FISCO/FNICO conformity in accordance with IEC 600079-27
- Safe operation in hazardous areas thanks to international approvals such as FM IS, NI, CSA IS, NI as well as ATEX Ex ia, Ex nA (Ex nL)
- High accuracy through sensor-transmitter matching
- Reliable operation with sensor monitoring and device hardware fault recognition
- Rapid no-tools wiring due to optional spring terminal technology

Specs at a glance

- **Accuracy** (Pt100) <= 0,1 K (Pt100) <= 0,18 °F

Field of application: Unsurpassed reliability, accuracy and long-term stability in critical processes over all industries. The configurable transmitter not only transfers digital converted signals from RTD and TC sensors, it also transfers resistance and voltage signals using PROFIBUS® PA communication. High measurement point availability by means of sensor monitoring functions. Diagnostics information according to NAMUR NE 107. Optimization of the measurement accuracy by sensor-transmitter matching.

Features and specifications

Temperature transmitters

Measuring principle
Head transmitter

Input
2 x RTD, TC, Ohm, mV

Output
PROFIBUS PA

Auxiliary power supply
9...32 V DC (PROFIBUS PA)
9...17,5 V DC (FISCO/FNICO)

Communication
PROFIBUS PA

Installation
Terminal head form B

Accuracy
(Pt100) <= 0,1 K
(Pt100) <= 0,18 °F

Galvanic isolation
yes

Temperature transmitters

Certification

ATEX II3G Ex ic IIC T6
ATEX II2D Ex tb IIIC Db
ATEX II1G Ex ia IIC T4/T5/T6
ATEX II3G Ex nA IIC T6
ATEX II3D Ex tc IIIC Dc
ATEX II1G Ex ia IIC T6, II3D
ATEX II3G Ex nA IIC T6, II3D
ATEX II2G Ex d T6, II2D Ex tb IIIC
FM+CSA IS, NI I/1+2/ABCD
CSA C/US General Purpose
FM IS, NI I/1+2/ABCD
CSA IS, NI I/1+2/ABCD
CSA XP, NI, DIP I, II, III/1+2/A-G
NEPSI Ex ia IIC T4/T5/T6
TIIS Ex ia IIC T6
NEPSI Ex nA IIC T4/T5/T6
IECEx Ex ia IIC T4/T5/T6
FM XP, NI, DIP I, II, III/1+2/A-G
EAC Ex ia IIC T6 Ga
EAC Ex d IIC T6 Gb
IECEx Ex tb IIIC Db
IECEx Ex d T6 Gb, Ex tb IIIC Db
INMETRO Ex ia [ia Ga] IIC T6 Gb
INMETRO Ex d T6 Gb, Ex tb IIIC Db
NEPSI Ex d IIC T6 Gb
UK II2D Ex tb IIIC Db
UK II3D Ex tc IIIC Dc
UK II1G Ex ia IIC T6 Ga, II3D Ex ia IIC Dc
UK II3G Ex nA IIC Gc, II3D Ex tc IIIC Dc
UK II2G Ex db IIC T6 Gb, II2D Ex tb IIIC Db
ATEX IECEx II1G Ex ia IIC T6 Ga

More information **www.de.endress.com/TMT84**

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