iTEMP TMT86 head transmitter with Ethernet-APL

Ethernet-APL head temperature transmitter for the use in hazardous areas

Benefits:
- Digital communication down to the field level, even in explosive atmospheres
- Easy and standardized system integration via PROFINET® Profile 4
- Integrated web server offers simplicity during commissioning and maintenance
- High accuracy of measuring point through sensor-transmitter matching
- Reliable operation with sensor monitoring and device hardware fault recognition
- Fast and tool-free wiring thanks to push-in terminal technology, optional
- Attachable measured value display, optional

Specs at a glance
- **Accuracy** (Pt100, -50...200 °C) <= 0,1 K (Pt100, -58...392 °F) <= 0,18 °F

Field of application: The iTEMP TMT86 is a reliable, intelligent and future proof dual-channel Ethernet-APL PROFINET temperature head transmitter for thermometers with terminal head form B and is suitable for use in hazardous areas. Beneficial diagnostic functions like corrosion monitoring of the sensor wires help to improve the plant up-time. The embedded webserver and the up-to-date FDI package simplifies the device configuration and integration.

Features and specifications
### Temperature transmitters

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<th><strong>Measuring principle</strong></th>
<th>Head transmitter</th>
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<tr>
<td><strong>Input</strong></td>
<td>2 x RTD, TC, Ohm, mV</td>
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<tr>
<td><strong>Output</strong></td>
<td>PROFINET</td>
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</table>
| **Auxiliary power supply** | 9,6...15 V DC (Ethernet-APL)  
20...30 V DC (SPE) |
| **Communication**       | PROFINET with Ethernet-APL |
| **Installation**        | Terminal head form B / in field |
| **Accuracy**            | (Pt100, -50...200 °C) <= 0,1 K  
(Pt100, -58...392 °F) <= 0,18 °F |
| **Galvanic isolation**  | yes |
Temperature transmitters

**Certification**

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

More information [www.endress.com/TMT86](http://www.endress.com/TMT86)