

Safety Instructions

iTEMP TMT71, TMT72, TMT82

IND-Ex: Ex db IIC T6...T4 Gb



iTEMP TMT71, TMT72, TMT82

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About this document

The document number of these Safety Instructions (XA) must match the information on the nameplate.

Associated documentation

All documentation is available on the Internet:

www.endress.com/Deviceviewer

(enter the serial number from the nameplate).

To commission the device, please observe the Operating Instructions pertaining to the device:

www.endress.com/<product code>, e.g. iTEMP TMT82

Supplementary documentation

Explosion protection brochure: CP00021Z

The Explosion-protection brochure is available:

- In the download area of the Endress+Hauser website:

www.endress.com -> Downloads -> Brochures and Catalogs ->

Text Search: CP00021Z

- On the CD for devices with CD-based documentation

Certificates and declarations

PESO Approval No.:

- P647711/1
- KLPL/Ex/14-082X Issue no. 01

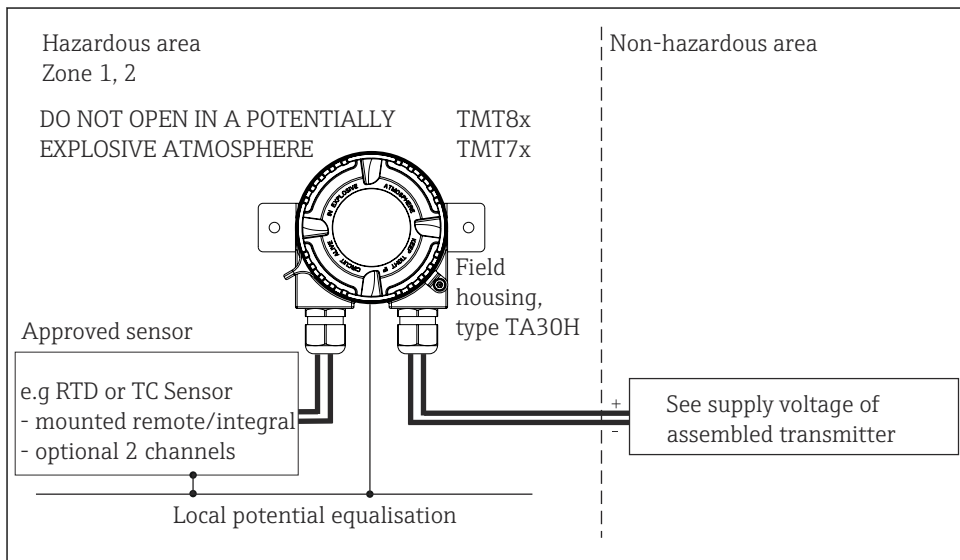
Affixing the approval number certifies conformity with the following standards (depending on the device version):

- IS/IEC 60079-0: 2017
- IS/IEC 60079-1: 2014

Manufacturer address

Endress+Hauser Wetzer (India)
Private Limited
M-192/2, MIDC Waluj
Chhatrapati Sambhajnagar 431136
India

Safety instructions



A0062730

Safety instructions: Installation

Type of protection flameproof

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and national regulations (e.g. IS 16724).
- The housing of the device must be connected to the potential matching line.
- Only the approved wire entries as specified in paragraph 10.3 of IS 16724, paragraph 16 of IS/IEC 60079-0, paragraph 13 of IS/IEC 60079-1 must be used.
- For connection through a conduit entry approved for this purpose the associated sealing facility shall be mounted directly to the housing.
- Seal unused entry glands with approved sealing plugs that correspond to the type of protection.
- When operating the transmitter enclosure at an ambient temperature under -20°C , use appropriate cables and cable entries permitted for this application.
- For ambient temperatures higher than $+70^{\circ}\text{C}$, use suitable heat-resisting cables or wires, cable entries and sealing facilities for Ta $+5\text{ K}$ above surrounding.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.

- The remote or integral mounted temperature sensor must comply with the requirements according to IS/IEC 60079-1.
- Use for remote temperature sensors only approved sensors certified for category 2G marked not less than II2G Ex d IIC T6...T4 Gb for use in Zone 1 (EPL Gb).
- Use for integral temperature sensors only approved sensors certified for category 1G or 2G marked not less than II1/2G Ex d IIC T6...T4 Ga/Gb or II2G Ex d IIC T6...T4 Gb for use in Zone 0 (EPL Ga) resp. Zone 1 (EPL Gb).
- The temperature class specified for the certified temperature sensor shall be taken into account.
- The device must be installed and maintained so, that even in the event of rare incidents, an ignition source due to impact or friction between the enclosure and iron/steel is excluded.
- Flameproof joints are not intended to be repaired.

 WARNING

Potentially explosive atmospheres

- ▶ Do not open the electrical connection of the supply circuit when energized if there is a potentially explosive atmosphere.

 WARNING

Explosive atmosphere

- ▶ In an explosive atmosphere, do not open the device when voltage is supplied (ensure that the IP6x housing protection is maintained during operation).

Temperature tables

Transmitter version with field housing, type TA30H		Temperature class / code	Ambient temperature range
Ex db IIC	iTEMP TMT71, TMT72, TMT82 with or without display TID10	T6/T85 °C	-50 to +65 °C
		T5/T100 °C	-50 to +80 °C
		T4/T105 °C	-50 to +85 °C
		T105 °C	-50 to +85 °C

Electrical connection data

Type	Supply voltage U _b
iTEMP TMT82	11 to 42 V _{DC}
iTEMP TMT71, TMT72	10 to 36 V _{DC}



71780241

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