

Safety Instructions **iTEMP TMT142B**

HART®

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



iTEMP TMT142B

HART®

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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 TMT142B

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.:

- P645979/1
- KLPL/Ex/14-073X Issue no. 01

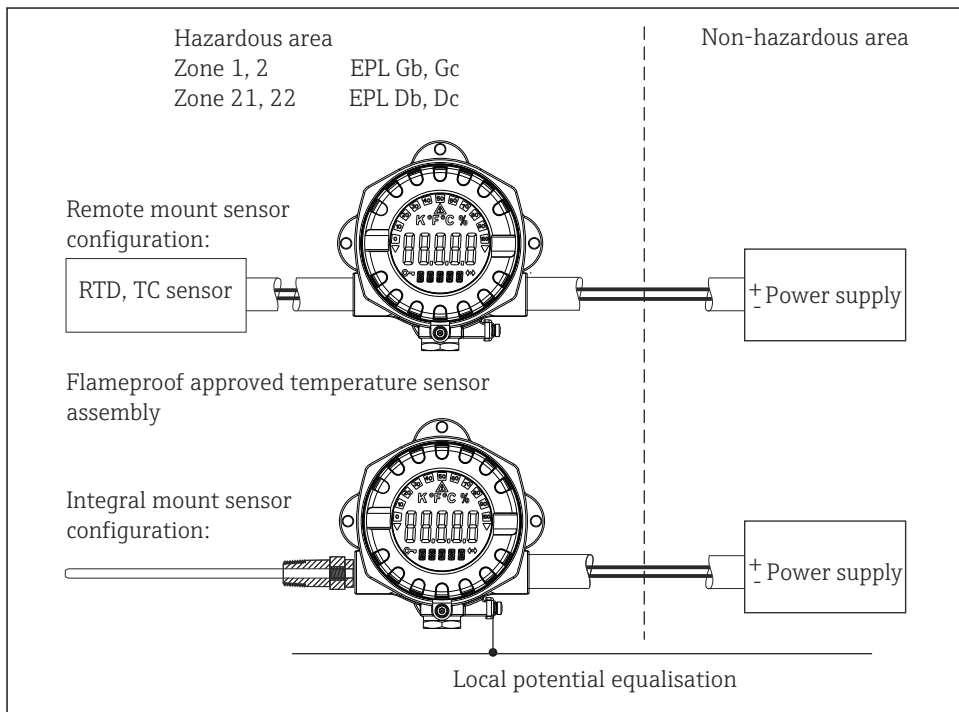
Affixing the approval number certifies conformity with the following standards (depending on the device version):

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

Manufacturer address

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

Safety instructions



A0050945

Safety instructions: Installation of protection flameproof

⚠ WARNING

Potentially explosive atmospheres

- ▶ Do not open the electrical connection of the supply circuit when energized if there is a potentially explosive atmosphere.
- 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 the cable entries with certified cable glands and or blanking elements which have at least type of protection Ex db.

- When operating the transmitter enclosure at an ambient temperature under $-20\text{ }^{\circ}\text{C}$, use appropriate cables and cable entries permitted for this application.
- For ambient temperatures higher than $+70\text{ }^{\circ}\text{C}$, use suitable heat-resisting cables or wires, cable entries and sealing facilities for $T_a +5\text{ K}$ 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.
- The temperature class specified for the certified temperature sensor shall be taken into account.

**Safety
instructions:
Installation of
dust ignition
protection**

⚠ WARNING

Explosive atmosphere

- ▶ In an explosive atmosphere, do not open the device when voltage is supplied (ensure that the IP66/67 housing protection is maintained during operation).
- 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).
- Seal the cable entries tight with certified cable glands which have at least type of protection Ex tb suitable for Group IIIC (degree of protection IP6X).
- The housing of the device must be connected to the potential matching line.
- The provided cable entries to option code glands are suitable ATEX/IECEx certified cable glands with a temperature range of -20 to $+95\text{ }^{\circ}\text{C}$.
- For ambient temperatures higher than $+70\text{ }^{\circ}\text{C}$, use suitable heat-resisting cables or wires, cable entries and sealing facilities for $T_a +5\text{ K}$ above surrounding.
- The remote or integral mounted temperature sensor must comply with the requirements according to IS/IEC 60079-31.
- The maximum surface temperature specified for the certified temperature sensor shall be taken into account.

**Safety
instructions:
Specific
conditions of use**

- Flameproof joints are not intended to be repaired.
- 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.

Temperature
tables

Type	Temperature class	Ambient temperature
iTEMP TMT142B	T6	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +55\text{ }^{\circ}\text{C}$
	T5	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$
	T4	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +80\text{ }^{\circ}\text{C}$

Type	Maximum surface temperature	Ambient temperature
iTEMP TMT142B	+110 °C	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +80\text{ }^{\circ}\text{C}$

Electrical
connection data

Type	Electrical data
iTEMP TMT142B	$U \leq 36\text{ V}_{\text{DC}}$ $P \leq 3\text{ W}$



71780332

www.addresses.endress.com
