Safety Instructions **iTEMP TMT142B**

HART®

ATEX, IECEx: Ex db IIC T6 Gb Ex tb IIIC Txxx°C Db







iTEMP TMT142B

HART®

Table of contents

About this document	4
Associated documentation	4
Supplementary documentation	4
Manufacturer´s certificates	5
Manufacturer address	5
Safety instructions	6
Safety instructions: Installation of protection flameproof	6
Safety instructions: Installation of dust ignition protection	7
Safety instructions: Special conditions	7
Temperature tables	8
Electrical connection data	8

About this document	This document has been translated into several languages. Legally determined is solely the English source text.
	 The document translated into EU languages is available: In the download area of the Endress+Hauser website: www.endress.com -> Downloads -> Manuals and Datasheets -> Type: Ex Safety Instruction (XA) -> Text Search: In the Device Viewer: www.endress.com -> Product tools -> Access device specific information -> Check device features If not yet available, the document can be ordered.
Associated documentation	This document is an integral part of the following Operating Instructions:
	 Operating instructions: BA00191R Brief operating instructions: KA00222R Technical Information: TI00107R
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

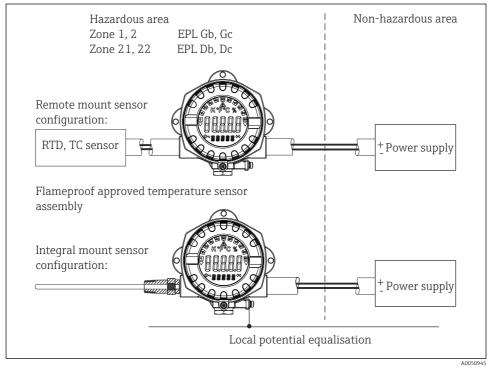
• On the CD for devices with CD-based documentation

XA01959T

Manufacturer 's	IECEx certificate
certificates	Certificate number: KEM 06.0020X
	Affixing the certificate number certifies conformity with the following standards (depending on the device version)
	 IEC 60079-0: 2017 IEC 60079-1: 2014 IEC 60079-31: 2014
	ATEX certificate
	Certificate number: KEMA 02ATEX2338X
	EU Declaration of Conformity
	Declaration number: EC_00164
	UKCA certificate
	Certificate number: CML 21UKEX11006 X
	UKCA Declaration of Conformity
	Declaration number: UK_00412
Manufacturer address	Endress+Hauser Wetzer GmbH + Co. KG Obere Wank 1

87484 Nesselwang, Germany

Safety instructions



Safety instructions: Installation of protection flameproof

WARNING

Explosive atmosphere

- Do not open the electrical connection of the power supply circuit in an explosive atmosphere.
- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- The housing of field transmitter must be connected to the potential matching line.
- Only the approved wire entries as specified in paragraph 10.3 of EN/ IEC60079-14, paragraph 16 of EN/IEC 60079-0, paragraph 13 of EN/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.

- For operating the transmitter housing at an ambient temperature under -20 °C, appropriate cables and cable entries permitted for this application must be used.
- For ambient temperatures higher than +70°C, use suitable heatresisting cables or wires, cable entries and sealing facilities for Ta +5K 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 EN/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 (ensure that the IP 66/67 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 any other valid standards and regulations (e.g. EN/IEC 60079-14).
- 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 field transmitter 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 °C.
- For ambient temperatures higher than +70 °C, use suitable heatresisting cables or wires, cable entries and sealing facilities for application temperature +5 K above surrounding.
- The remote or integral mounted temperature sensor must comply with the requirements according to EN/IEC 60079-31.
- The maximum surface temperature specified for the certified temperature sensor shall be taken into account.

Safety instructions: Special conditions

- The flameproof joints are not intended to be repaired.
- The temperature transmitter must be installed 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

Туре	Temperature class	Ambient temperature
iTEMP	Т6	-40 °C ≤ Ta ≤ +55 °C
TMT142B	T5	-40 °C \leq Ta \leq +70 °C
	T4	-40 °C ≤ Ta ≤ +80 °C

Туре	Maximum surface temperature	Ambient temperature
iTEMP TMT142B	+110 °C	-40 °C ≤ Ta ≤ +80 °C

Electrical connection data

Туре	Electrical data
	$ \begin{array}{l} U \leq 36 \ V_{DC} \\ P \leq 3 \ W \end{array} $

Category	Type of protection (ATEX/IECEx)	Туре
II 2G	Ex db IIC T6T4 Gb	iTEMP TMT142B
II 2D	Ex tb IIIC T110°C Db	



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