Safety Instructions
iTEMP TMT162

HART®, PROFIBUS® PA, FOUNDATION Fieldbus™

ATEX, IECEx: Ex tb IIIC Txxx °C Db

Endress+Hauser [EH]

People for Process Automation

iTEMP TMT162

HART®, PROFIBUS® PA, FOUNDATION Fieldbus™

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About this document

ℹ 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

ℹ If not yet available, the document can be ordered.

Associated documentation

This document is an integral part of the following Operating Instructions:

HART®:
- Operating instructions: BA01801T
- Brief operating instructions: KA00250R
- Technical information: TI00086R, TI01344T

PROFIBUS® PA:
- Operating instructions: BA00275R
- Brief operating instructions: KA00276R
- Technical information: TI00086R

FOUNDATION Fieldbus™:
- Operating instructions: BA00224R
  Brief operating instructions: KA00189R
- Technical information: TI00086R

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

Manufacturer´s certificates

IECEx certificate

Certificate number: IECEx KEM 06.0020X

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

- IEC 60079-0 : 2017
- IEC 60079-31 : 2013

ATEX certificate

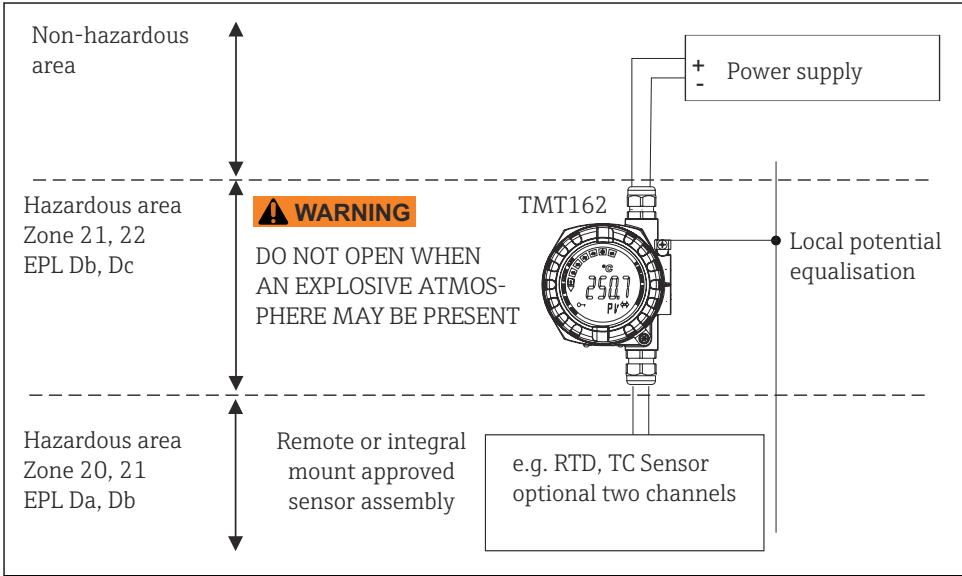Certificate number: KEMA 02ATEX2338 X

EU Declaration of Conformity

Declaration number: EC_00164

Manufacturer address

Endress+Hauser Wetzer GmbH + Co. KG
Obere Wank 1
87484 Nesselwang, Germany

Safety instructions:

A0051072

Safety instructions: Installation	⚠️ **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 (min. IP6X) IP6X according to EN/IEC 60529.
- The provided cable entries to option code glands are suitable ATEX/IECEx certified cable glands with a temperature range of −20 to +95 ℃.
- For operating the transmitter housing at an ambient temperature under −20 ℃ appropriate cables and cable entries permitted for this application must be used.
- The housing of the field transmitter must be connected to the potential matching line.
- For ambient temperatures higher than +70 ℃, use suitable heat-resisting cables or wires, cable entries and sealing facilities for application temperature +5 K above surrounding.

- For integral temperature sensors use only approved sensors certified for category 1D or 2D marked not less than II1/2D Ex ta/Ex tb IIIC T110 °C Da/Db or II2D Ex tb IIIC T110 °C Db for use in Zone 20 or Zone 21.
- For remote temperature sensors use only approved sensors certified for category 2D marked not less than II2D Ex tb IIIC T110°C Db for use in Zone 21.
- The maximum surface temperature specified for the certified temperature sensor shall be taken into account.

Temperature tables

Type	Maximum surface	Ambient temperature
iTEMP TMT162	+110 °C	−40 °C ≤ Ta ≤ +80 °C

Electrical connection data

Type	Electrical Data
iTEMP TMT162 (HART® - protocol)	U ≤ 40 V_{DC} P ≤ 3 W
iTEMP TMT162 (PROFIBUS® PA) iTEMP TMT162 (FOUNDATION Fieldbus™)	U ≤ 35 V_{DC} P ≤ 3 W

Category	Type of protection (ATEX/IECEx)	Type
II 2D	Ex tb IIIC T110 °C Db	iTEMP TMT162

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