

Safety Instructions

iTEMP TMT162, TMT142

PROFIBUS® PA, FOUNDATION Fieldbus™

ATEX: II3G Ex nA IIC T6...T4 Gc

Safety instructions for electrical apparatus in
explosion-hazardous areas



iTEMP TMT162, TMT142

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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:

- TMT162 HART®:
 Operating Instructions: BA00132R
 Brief operating instructions: KA00250R
 Technical information: TI00086R
- TMT162 FOUNDATION Fieldbus™:
 Operating Instructions: BA00224R
 Brief operating instructions: KA00189R
 Technical information: TI00086R
- TMT162 PROFIBUS PA®:
 Operating Instructions: BA00275R
 Brief operating instructions: KA00276R
 Technical information: TI00086R
- TMT142:
 Operating Instructions: BA00191R
 Brief operating instructions: KA00222R
 Technical information: TI00107R

Supplementary documentation

Explosion-protection brochure: CP00021Z/11

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****EU Declaration of Conformity**

Certificate number: EC_00165 X

UKCA Declaration of Conformity

Declaration number: UK_00433

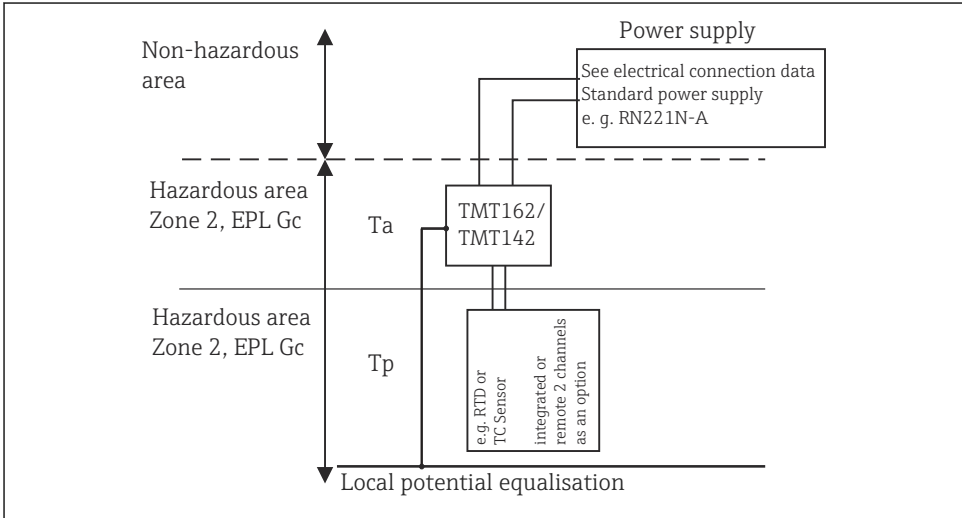
Affixing the certificate number certifies conformity with the following standards (depending on the device version)

- EN IEC 60079-0 : 2018
- EN 60079-15 : 2010


**Manufacturer
address**

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

Safety instructions:



A0048871

 1 Installation of the transmitter

Safety instructions: Installation

- 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.
- For operating the transmitter at an ambient temperature under -20°C , appropriate cables, cable entries and sealing facilities 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 $+70^{\circ}\text{C}$, use suitable heat-resisting cables or wires, cable entries and sealing facilities for $T_a + 5\text{ K}$ above surrounding.
- The transmitter 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.
- When using a plug-in connector (e.g. TURCK PA connector), ensure that the requirements for category 3 and the operating temperature are observed.

⚠ WARNING**Explosive atmosphere**

- In an explosive atmosphere, do not open the device when voltage is supplied (ensure that the IP 66/67 housing protection is maintained during operation).

Temperature tables

Category	Type of protection	Type
II 3G	Ex nA IIC T6...T4 Gc	TMT162, TMT142

Type	Temperature class	Ambient temperature
TMT162, TMT142	T6	$-40\text{ °C} \leq T_a \leq +55\text{ °C}$
	T5	$-40\text{ °C} \leq T_a \leq +70\text{ °C}$
	T4	$-40\text{ °C} \leq T_a \leq +85\text{ °C}$

Electrical connection data

Type	Type of protection	Power supply (terminals + and -)
TMT162, TMT142	Ex nA IIC T6...T4 Gc	$U_b = 11$ to 40 V_{DC} Output: 4 to 20 mA (HART® protocol) Current consum. $\leq 23\text{ mA}$
TMT162	Ex nA IIC T6...T4 Gc	$U_b = 9$ to 32 V_{DC} Output: FOUNDATION Fieldbus™ PROFIBUS PA® Current consum. $\leq 11\text{ mA}$



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