


Safety Instructions

iTEMP TMT82, TMT71, TMT72

DIN rail transmitter

ATEX: II 3G: Ex nA IIC T6... T4 Gc



Document: XA01402R
Safety Instructions for electrical equipment for use in
hazardous areas as per Directive 2014/34/EC
(ATEX) →  2

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About this document



This document has been translated into several languages. Legally determined is solely the English source text.

Associated documentation

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

- TMT71:
Operating Instructions: BA01927T
Brief operating instructions: KA01414T
Technical information: TI01393T
- TMT72:
Operating Instructions: BA01854T
Brief operating instructions: KA01414T
Technical information: TI01392T
- TMT82:
Operating Instructions: BA01028T
Brief operating instructions: KA01095T
Technical information: TI01010T

All documentation is available in:

- *W@M Device Viewer*: Enter the serial number from the nameplate in the (www.endress.com/deviceviewer): all data relating to the device and an overview of the Technical Documentation supplied with the device are displayed.
- *Endress+Hauser Operations App*: Enter the serial number on the nameplate or scan the 2-D matrix code (QR code) on the nameplate with the *Endress+Hauser Operations App*: all the information about the device and the technical documentation pertaining to the device is displayed.
- In the Download Area of the Endress+Hauser web site: www.endress.com → Download.

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 → Download → Advanced → Documentation code: CP00021Z

Certificates

Declaration of Conformity

Declaration number: EC_00187

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

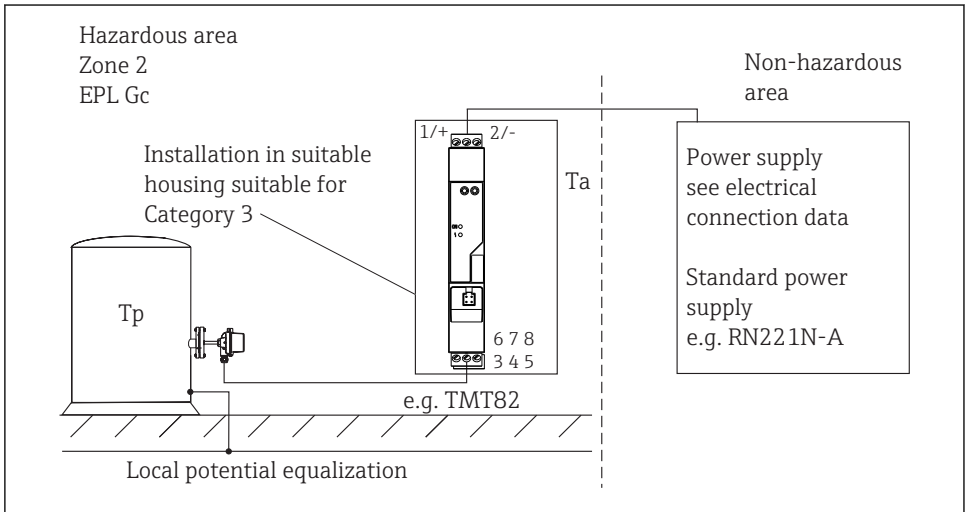
ATEX:

- EN 60079-0: 2012 + Cor. 2013
- EN 60079-15: 2010


**Manufacturer
address**

Endress+Hauser Wetzler GmbH + Co. KG
Obere Wank 1,
D-87484 Nesselwang or www.endress.com

Safety instructions



A0027841-EN

 1 Transmitter installation

WARNING

Explosive atmospheres

- ▶ In explosive atmospheres, do not open the device when energized. (Ensure that the housing protection rating of IP 54 is maintained during operation.)

Safety instructions: Installation

- Pay attention to the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's specifications and the applicable standards and guidelines (EN/IEC 60079-14).
- To operate the field transmitter housing at an ambient temperature below $-20\text{ }^{\circ}\text{C}$, use suitable cables and cable entries approved for this application.
- The housing must be connected to the potential equalization line.

- During installation, ensure that the housing and cable glands used comply with the requirements of IEC/EN 60079-0 for Category 3 or Group III housing.
- At ambient temperatures above +70 °C, use suitable heat-resistant cables or lines, cable entries and seals with an operating temperature T_a that is +5 K above the ambient temperature.
- The temperature transmitter must be installed in such a way that any risk of ignition caused by impact or friction between metal/steel and the housing is eliminated, even in exceptional cases.

Safety instructions:
Protection by type of protection “n”

When installing the device in a housing that is certified for Category 3, ensure that the housing protection rating of IP 54 is maintained in accordance with EN/IEC 60529.

Temperature tables

Category	Type of protection	Type
II 3G	Ex nA IIC T6...T4 Gc	TMT82, TMT71, TMT72

Type	Temperature class	Ambient temperature range
TMT82	T6	$-40\text{ °C} \leq T_a \leq +41\text{ °C}$
	T5	$-40\text{ °C} \leq T_a \leq +56\text{ °C}$
	T4	$-40\text{ °C} \leq T_a \leq +85\text{ °C}$
TMT71, TMT72	T6	$-50\text{ °C} \leq T_a \leq +43\text{ °C}$
	T5	$-50\text{ °C} \leq T_a \leq +58\text{ °C}$
	T4	$-50\text{ °C} \leq T_a \leq +85\text{ °C}$

Electrical connection data

Type	Type of protection	Power supply (terminals + and -)
TMT82	Ex nA IIC T6...T4 Gc	$U_b = 12\text{ to }42\text{ V}_{DC}$ Output: 4 to 20 mA Current consumption: $\leq 23\text{ mA}$
TMT71, TMT72	Ex nA IIC T6...T4 Gc	$U_b = 11\text{ to }36\text{ V}_{DC}$ Output: 4 to 20 mA Current consumption: $\leq 23\text{ mA}$



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www.addresses.endress.com
