

# Safety Instructions

## **iTEMP TMT82, TMT71, TMT72**

DIN rail transmitter

ATEX: Ex nA IIC Gc



# iTEMP TMT82, TMT71, TMT72

DIN rail transmitter

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**Associated documentation**

All documentation is available on the Internet:  
[www.endress.com/Deviceviewer](http://www.endress.com/Deviceviewer)  
(enter the serial number from the nameplate).



If not yet available, a translation into EU languages can be ordered.

To commission the device, please observe the Operating Instructions pertaining to the device:

[www.endress.com/<product code>](http://www.endress.com/<product code>), e.g. TMT82

**Supplementary documentation**

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:

[www.endress.com/Downloads](http://www.endress.com/Downloads)

**Certificates and declarations****EU Declaration of Conformity**

Declaration number: EC\_00187

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

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

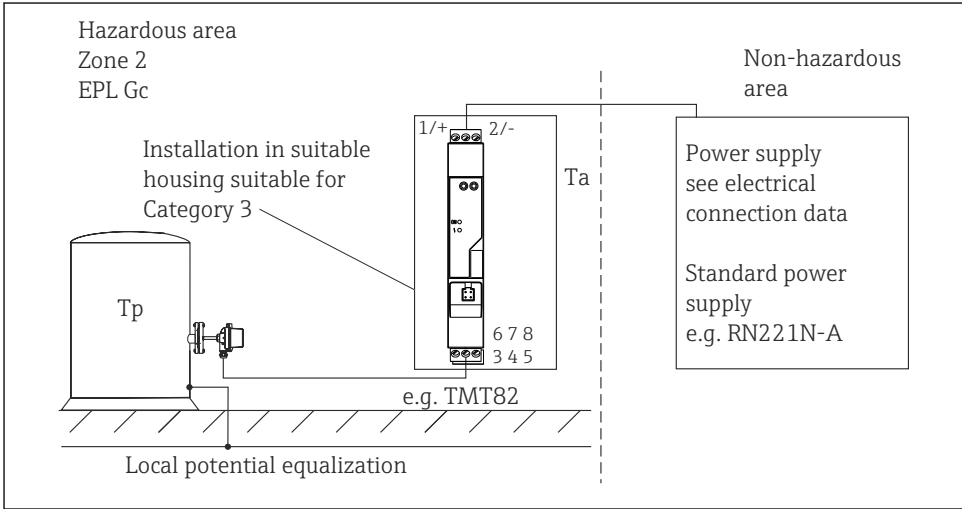
The EU Declaration of Conformity is available on the Internet:

[www.endress.com/Downloads](http://www.endress.com/Downloads)


**Manufacturer address**

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

## Safety instructions



A0052254

 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).
- For operating the transmitter housing at an ambient temperature under  $-20^{\circ}\text{C}$ , appropriate cables, cable entries and sealing facilities permitted for this application must be used.
- For ambient temperatures higher than  $+70^{\circ}\text{C}$ , use suitable heat-resisting cables or wires, cable entries and sealing facilities for Ta  $+5\text{ K}$  above surrounding.

### 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: Special conditions

- Due to the risk of discharge, the non-metallic parts of the equipment and of all non-metallic accessories have to be protected from electrostatic charging during installation and operation (e.g. only wipe with a damp cloth and do not expose to high voltage fields).
- The use of the CDI interface is not allowed in Hazardous locations.

**For type of protection Ex nA:**

- For use in the type of protection Ex nA, and for Zone 2 (EPL Gc) application, the transmitter shall be installed completely inside an additional enclosure, providing a degree of protection of not less than IP54 according to EN/IEC 60079-0 and EN/IEC 60079-15. The ambient temperature within the end use enclosure shall not exceed the limits of the permissible ambient temperature range. Clearances, creepage distances, and separations as defined in EN/IEC 60079-15 must be considered for the installation.
- The end user shall ensure appropriate earthing of the metallic field housing (optional) and all metallic accessories if used (wall or pipe mounting accessories for the field housing and the DIN rail clip for the head transmitter) upon installation.
- The TMT82 does not have any surface that achieves a temperature greater than 135 °C/100 °C/85 °C with a 5K safety factor when operated under full load conditions at an ambient of range of 85 °C/56 °C/41 °C respectively.
- The TMT71/TMT72 does not have any surface that achieves a temperature greater than 135 °C/100 °C/85 °C with a 5K safety factor when operated under full load conditions at an ambient of range of 85 °C/58 °C/43 °C respectively.

**Temperature tables**

Type	Ambient temperature range
TMT82	-40 °C ≤ Ta ≤ +85 °C
TMT71, TMT72	-50 °C ≤ Ta ≤ +85 °C

**Electrical connection data**

Type	Type of protection	Power supply (terminals + and -)
TMT82	Ex nA IIC Gc	U <sub>b</sub> = 12 to 42 V <sub>DC</sub> Output: 4 to 20 mA Current consumption: ≤ 23 mA
TMT71, TMT72	Ex nA IIC Gc	U <sub>b</sub> = 11 to 36 V <sub>DC</sub> Output: 4 to 20 mA Current consumption: ≤ 23 mA

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







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