

Safety Instructions

iTEMP TMT121/127/128, TMT112, TMT122

ATEX: Ex nA IIC Gc



iTEMP TMT121/127/128, TMT112, TMT122

Table of contents

Associated documentation	4
Supplementary documentation	4
Certificates and declarations	4
Manufacturer address	4
Safety instructions	5
Safety instructions: Installation	5
Safety instructions: Schedule of limitations	6
Temperature tables	6
Electrical connection data	7

Associated documentation

All documentation is available on the Internet:
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>, e.g. TMT12x

Supplementary documentation

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:

www.endress.com/Downloads

Certificates and declarations**EU Declaration of Conformity**

Declaration number: EC_00162 X

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

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

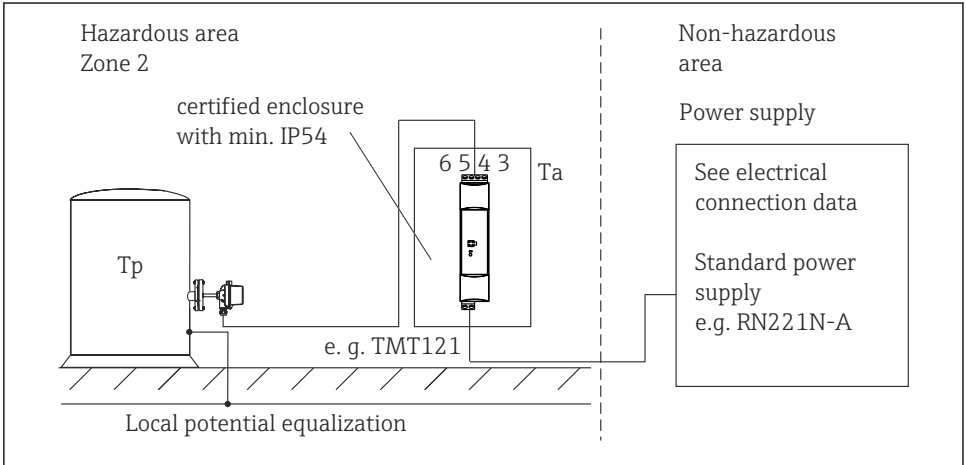
The EU Declaration of Conformity is available on the Internet:

www.endress.com/Downloads


Manufacturer address

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

Safety instructions



A0052350

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

Safety instructions: Schedule of limitations

- 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).
- For use in the type of protection Ex nA, and for Zone 2 (EPL Gc) application, the transmitter TMT1xx 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.
- These TMT121 (7)(8) does not have any surface that achieves a temperature greater than 135 °C/100 °C/85 °C with a 5 K safety factor when operated under full load conditions at an ambient of range of 85 °C/55 °C/45 °C respectively.
- These TMT1x2 does not have any surface that achieves a temperature greater than 135 °C/100 °C/85 °C with a 5 K safety factor when operated under full load conditions at an ambient of range of 85 °C/65 °C/55 °C respectively.
- For full certification as an electrical equipment for use in EPL Gc the tests according to EN/IEC 60079-0 section 5.2 and 5.3 have to be carried out. Based on the test results a temperature class shall be assigned.

WARNING

Explosive atmosphere

- ▶ In an explosive atmosphere, do not open the device when voltage is supplied (ensure that at least the IP 54 housing protection is maintained during operation).

Temperature tables

Type	Ambient temperature
TMT121 TMT127 TMT128	-40 °C ≤ Ta ≤ +85 °C
TMT112 TMT122	-40 °C ≤ Ta ≤ +85 °C

**Electrical
connection data**

Type	Type of protection	Power supply (terminals + and -)
TMT121 TMT127 TMT128	Ex nA IIC Gc	$U_b = 12$ to $35 V_{DC}$ Output: 4 to 20 mA Current consumption: ≤ 23 mA
TMT122 TMT112	Ex nA IIC Gc	$U_b = 12$ to $35 V_{DC}$ Output: 4 to 20 mA Current consumption: ≤ 23 mA

Category	Type of protection	Type
II 3G	Ex nA IIC Gc	TMT121, TMT127, TMT128, TMT112, TMT122



71606788

www.addresses.endress.com
