# Safety Instructions **iTEMP TMT162**

PROFIBUS® PA, FOUNDATION Fieldbus™

ATEX: Ex ic IIC Gc







iTEMP TMT162 XA00062R

### iTEMP TMT162

PROFIBUS® PA, FOUNDATION Fieldbus™

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### 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. TMT162

### Supplementary documentation

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:

### Certificates and declarations

#### **EU Declaration of Conformity**

Declaration number: EC 00165 X

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

EN IEC 60079-0: 2018EN 60079-11: 2012

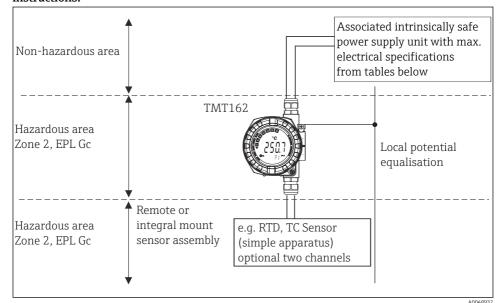
The EU Declaration of Conformity is available on the Internet: www.endress.com/Downloads

### Manufacturer address

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

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### Safety instructions:



■ 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).
- The device is only suitable for connection to certified, intrinsically safe equipment with explosion protection of at least Ex ic.
- If the conditions Ui > Uo, (Ii > Io), Ca > Ci + Ccable and La > Li + Lcable are met, the energy-limited installation concept (Ex ic) allows energy-limited devices or associated energy-limited devices to be connected according to the entity concept.
- Observe the pertinent guidelines when interconnecting intrinsically safe circuits (e.g. EN/IEC 60079-14, Proof of Intrinsic Safety).
- The housing of the field transmitter must be connected to the potential matching line.
- When connecting two independent sensors make sure that the potential equalisation cables are at the same potential.
- The circuits of the transmitter are isolated from its enclosure in conformance with EN/IEC 60079-11 chapter 6.3.13.
- The temperature transmitter must be installed 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.

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# Temperature tables

Category	Type of protection (ATEX)	Туре
II 3G	Ex ic IIC T6T4 Gc	TMT162

Туре	Temperature class	Ambient temperature		
TMT162	Т6	-40 °C ≤ Ta ≤ +55 °C		
	T5	-40 °C ≤ Ta ≤ +70 °C		
	T4	-40 °C ≤ Ta ≤ +85 °C		

## Electrical connection data

Туре	Electrical Data					
TMT162 - PROFIBUS® PA - FOUNDATION Fieldbus™		$\begin{split} &U_i \leq 17.5 \ V_{DC} \\ &I_i \leq \text{not applicable} \\ &\text{(current controlled circuit)} \\ &P_i \leq \text{not applicable} \\ &C_i \leq 5 \ \text{nF} \\ &L_i = 10 \ \mu\text{H} \end{split}$	)	$I_i \le 11 \text{ mA (nominal)}$ $P_i \le \text{not applicable}$		
	Applicable for connection to a Fieldbus system according to FISCO-model					
	Sensor circuit (terminal 1 to 6)	$U_o \le 8.6 \text{ V}_{DC}$ $I_o \le 26.9 \text{ mA}$				
		$P_0 \le 57.6 \text{ mW}$				
	Max. connection values					
	Ex ic IIC	$L_0 = 48 \text{ mH}$		$C_0 = 6.2 \mu F$		
	Ex ic IIB	$L_0 = 180 \text{ mH}$		$C_0 = 55 \mu F$		
	Ex ic IIA	$L_0 = 380 \text{ mH}$		$C_0 = 1000 \ \mu F$		



www.addresses.endress.com