

# Safety Instructions

## RID14

ATEX: II1G Ex ia IIC T6...T4 Ga

IECEX: Ex ia IIC T6...T4 Ga

Safety instructions for electrical apparatus in  
explosion-hazardous areas






# RID14

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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](http://www.endress.com) -> Downloads -> Manuals and Datasheets -> Type: Ex Safety Instruction (XA) -> Text Search: ...
- In the Device Viewer: [www.endress.com](http://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:

- Operating instructions: BA00282R and BA01267K
- Brief operating instructions: KA00281R and KA01156K
- Technical information: TI00145R

## 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](http://www.endress.com) -> Downloads -> Brochures and Catalogs -> Text Search: CP00021Z
- On the CD for devices with CD-based documentation

## Manufacturer's certificates

### IECEX certificate

Certificate number: IECEX KEM 10.0021X

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

- IEC 60079-0 : 2017
- IEC 60079-11 : 2012

### ATEX certificate

Certificate number: KEMA 10ATEX0092 X

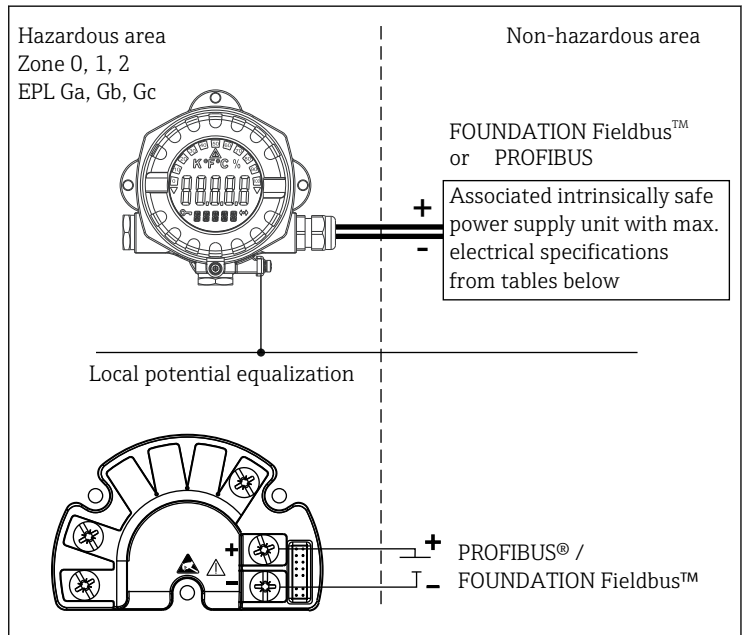
### EU Declaration of Conformity

Declaration number: EC\_00033

## Manufacturer address

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

## Safety instructions:



A0048685

1 Installation of the field indicator

**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 type of protection changes as follows when the devices are connected to certified intrinsically safe circuits of Category ib: Ex ib IIC.
- The circuits of indicator are isolated from its enclosure in conformance with EN/IEC 60079-11 chapter 6.3.13.

**Safety instructions: Zone 0**

- Only operate devices in potentially explosive vapour/air mixtures under atmospheric conditions:
  - -20 to +60 °C
  - 0.8 to 1.1 bar
- If no potentially explosive mixtures are present, or if additional protective measures have been taken, according to EN 1127-1, the field display may be operated under other atmospheric conditions in accordance with the manufacturer's specifications.
- Associated apparatus with galvanic isolation between the intrinsically safe and non-intrinsically safe circuits are preferred.

**Safety instructions: Specific conditions of use**

- When the enclosure is provided with an non-conductive coating, electrostatic charges on the equipment enclosure shall be avoided. For more details see safety instructions.
- When the enclosure of the Field Display Type RID14-\*A is made of aluminium, if it is mounted in an area where the use of EPL Ga apparatus is required, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

**Temperature tables**

Type	Temperature class	Ambient temperature
RID14	T6	-40 °C ≤ Ta ≤ +55 °C
	T5	-40 °C ≤ Ta ≤ +70 °C
	T4	-40 °C ≤ Ta ≤ +80 °C

**Electrical connection data**

Type	Electrical Data
RID14 PROFIBUS® PA RID14 FOUNDATION Fieldbus™	Power supply (terminals + and -) Ui ≤ 17.5 V <sub>DC</sub> or Ui ≤ 24 V <sub>DC</sub> Ii ≤ 500 mA Ii ≤ 250 mA

Type	Electrical Data
	$P_i \leq 5.32 \text{ W}$ $P_i \leq 1.2 \text{ W}$ $C_i \leq 5 \text{ nF}$ $L_i \leq 10 \text{ } \mu\text{H}$ Applicable for connection to a Fieldbus system according to FISCO-model

Category	Type of protection (ATEX)	Type
II 1 G	Ex ia IIC T6...T4 Ga	RID14

Type of protection (IECEX)	Type
Ex ia IIC T6...T4 Ga	RID14



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