

# Safety Instructions

## RID16

ATEX, IECEx: Ex ia IIC T6...T4 Gb

Safety instructions for electrical apparatus in  
explosion-hazardous areas






# RID16

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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: BA00284R, BA01268K
- Brief operating instructions: KA00283R, KA01157K
- Technical information: TI00146R

## 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

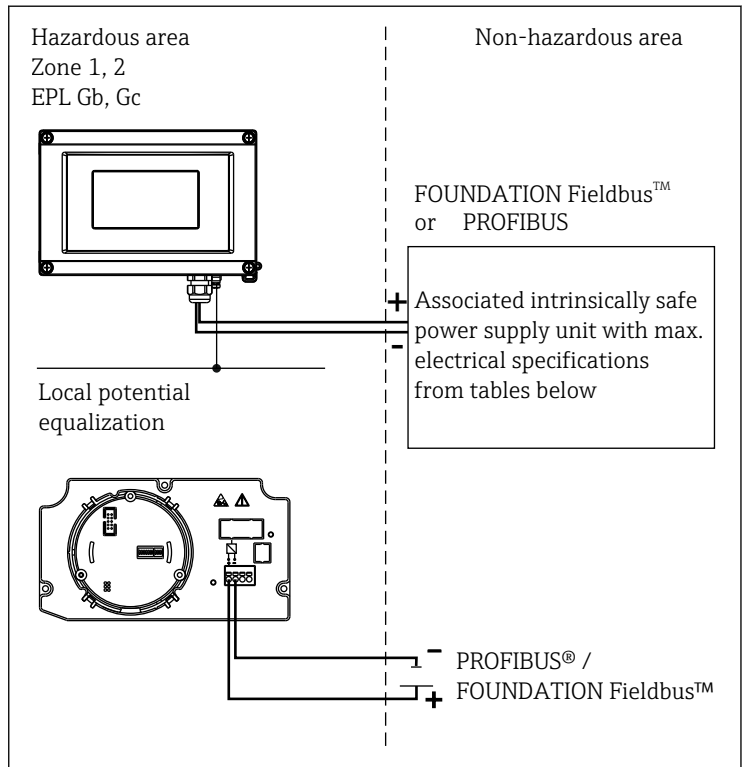
### ATEX certificate

Certificate number: KEMA 10ATEX0092 X

## Manufacturer address

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

## Safety instructions:



A0050410

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 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.
- The circuits of indicator are isolated from its enclosure in conformance with EN/IEC 60079-11 chapter 6.3.13.

**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.

**Temperature tables**

Type	Temperature class	Ambient temperature
RID16	T6	$-40\text{ °C} \leq T_a \leq +55\text{ °C}$
	T5	$-40\text{ °C} \leq T_a \leq +70\text{ °C}$
	T4	$-40\text{ °C} \leq T_a \leq +80\text{ °C}$

**Electrical connection data**

Type	Electrical data															
RID16 PROFIBUS® PA RID16 FOUNDATION Fieldbus™	Power supply (terminals + and -) <table style="margin-left: 20px;"> <tr> <td><math>U_i \leq 17.5\text{ V}_{DC}</math></td> <td>or</td> <td><math>U_i \leq 24\text{ V}_{DC}</math></td> </tr> <tr> <td><math>I_i \leq 500\text{ mA}</math></td> <td></td> <td><math>I_i \leq 250\text{ mA}</math></td> </tr> <tr> <td><math>P_i \leq 5.32\text{ W}</math></td> <td></td> <td><math>P_i \leq 1.2\text{ W}</math></td> </tr> <tr> <td><math>C_i \leq 5\text{ nF}</math></td> <td></td> <td></td> </tr> <tr> <td><math>L_i \leq 10\text{ }\mu\text{H}</math></td> <td></td> <td></td> </tr> </table> Applicable for connection to a Fieldbus system according to FISCO-model.	$U_i \leq 17.5\text{ V}_{DC}$	or	$U_i \leq 24\text{ V}_{DC}$	$I_i \leq 500\text{ mA}$		$I_i \leq 250\text{ mA}$	$P_i \leq 5.32\text{ W}$		$P_i \leq 1.2\text{ W}$	$C_i \leq 5\text{ nF}$			$L_i \leq 10\text{ }\mu\text{H}$		
$U_i \leq 17.5\text{ V}_{DC}$	or	$U_i \leq 24\text{ V}_{DC}$														
$I_i \leq 500\text{ mA}$		$I_i \leq 250\text{ mA}$														
$P_i \leq 5.32\text{ W}$		$P_i \leq 1.2\text{ W}$														
$C_i \leq 5\text{ nF}$																
$L_i \leq 10\text{ }\mu\text{H}$																

Category	Type of protection (ATEX, IECEx)	Type
II2G	Ex ia IIC T6...T4 Gb	RID16





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