XA02241K/09/EN/03.25-00
71716394
2025-07-28

Safety Instructions
RIA14

Field Indicator

Ex db IIC T4...T6 Gb

Endress+Hauser
People for Process Automation

RIA14

Field Indicator

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About this document

The document number of these Safety Instructions (XA) must match the information on the nameplate.

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. RIA14

Supplementary documentation

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:
www.endress.com/Downloads

Certificates and declarations

NEPSI certificate

Certificate number: GYJ25.1094X

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

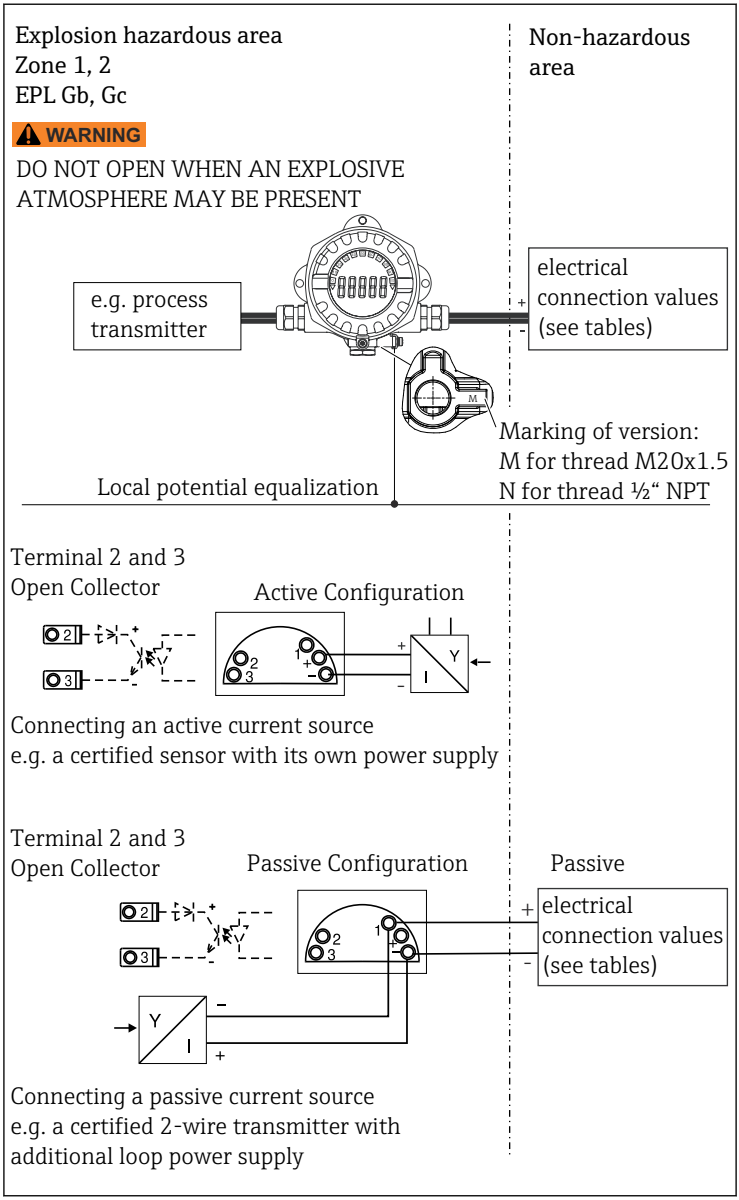
- GB/T 3836.1-2021
- GB/T 3836.2-2021

Please refer to NEPSI/CCC certificates for conditions of safe use.

Manufacturer address

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

Safety instructions



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 housing of field display must be connected to the potential matching line.
- Only the approved wire entries as specified in paragraph 10.3 of EN/IEC 60079-14, paragraph 16 of EN/IEC 60079-0, paragraph 13 of EN/IEC 60079-1 must be used.
- For connection through a conduit entry approved for this purpose the associated sealing facility shall be mounted directly to the housing.
- Seal the cable entries with certified cable glands and or blanking elements which have at least type of protection Ex db.
- For operating the display housing at an ambient temperature under -20°C, appropriate cables and cable entries permitted for this application must be used.
- For ambient temperatures higher than +70 °C, use suitable heat-resisting cables or wires, cable entries and sealing facilities for Ta +5 K above surrounding.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.

⚠ WARNING

Potentially explosive atmospheres

▶ Do not open the electrical connection of the supply circuit when energized if there is a potentially explosive atmosphere.

Safety instructions: Specific conditions of use

The suffix “X” placed after the certificate number indicates that this product is subject to special conditions for safe use, which is:

- The flameproof joints are not intended to be repaired.
- For information on the dimensions of the flameproof joints contact the manufacturer.
- 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.
  Users must take effective measures to prevent the risk of ignition of the product casing caused by impact or friction.
- The user shall not change the configuration in order to maintain/ ensure the explosion protection performance of the equipment. Any change may impair safety.
- For installation, use and maintenance of this product, the end user shall observe the instruction manual and the following standards:
  - GB/T 3836.13-2021 “Explosive atmospheres- Part 13:Equipment repair, overhaul, reclamation and modification”.
  - GB/T 3836.15-2017 “Explosive atmospheres- Part 15:Electrical installations design, selection and erection”.
  - GB/T 3836.16-2022 “Explosive atmospheres- Part 16:Electrical installations inspection and maintenance”.
  - GB50257-2014 “Code for construction and acceptance of electric equipment on fire and device for explosion hazard electrical installation engineering”.

Temperature tables

The relationship between ambient temperature and temperature class is shown as follows:

Type	Temperature class	Ambient temperature
RIA14	T6	−40 °C ≤ Ta ≤ +55 °C
	T5	−40 °C ≤ Ta ≤ +70 °C
	T4	−40 °C ≤ Ta ≤ +80 °C

Electrical connection data

Type	Electrical data	
RIA14	Supply (Terminals + and - or + and 1)	U ≤ 35 V_{DC} I ≤ 200 mA P ≤ 3 W
	Open Collector (terminals 2 and 3)	U ≤ 35 V_{DC} I ≤ 100 mA P ≤ 875 mW

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