


Safety Instructions

RIA15, ORIA15

Ex ib IIC T6 Gb



Document: XA02115K
Safety instructions for electrical apparatus for explosion-
hazardous areas →  2

RIA15, ORIA15

Table of contents

Associated documentation	3
Supplementary documentation	3
Manufacturer's certificates	3
Safety instructions	4
Safety instructions: Installation	5
Safety instructions: Special conditions	5
Safety Instructions: General	6
Temperature tables	6
Electrical connection data	6

Associated documentation

This document is an integral part of the following Operating Instructions:

RIA15:

Operating Instructions:

- BA01073K or
- BA01170K (HART option)

ORIA15:

Operating Instructions:

- BA011570 or
- BA012030 (HART option)

The Operating Instructions pertaining to the device apply.

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 → Download → Advanced → Documentation code: CP00021Z

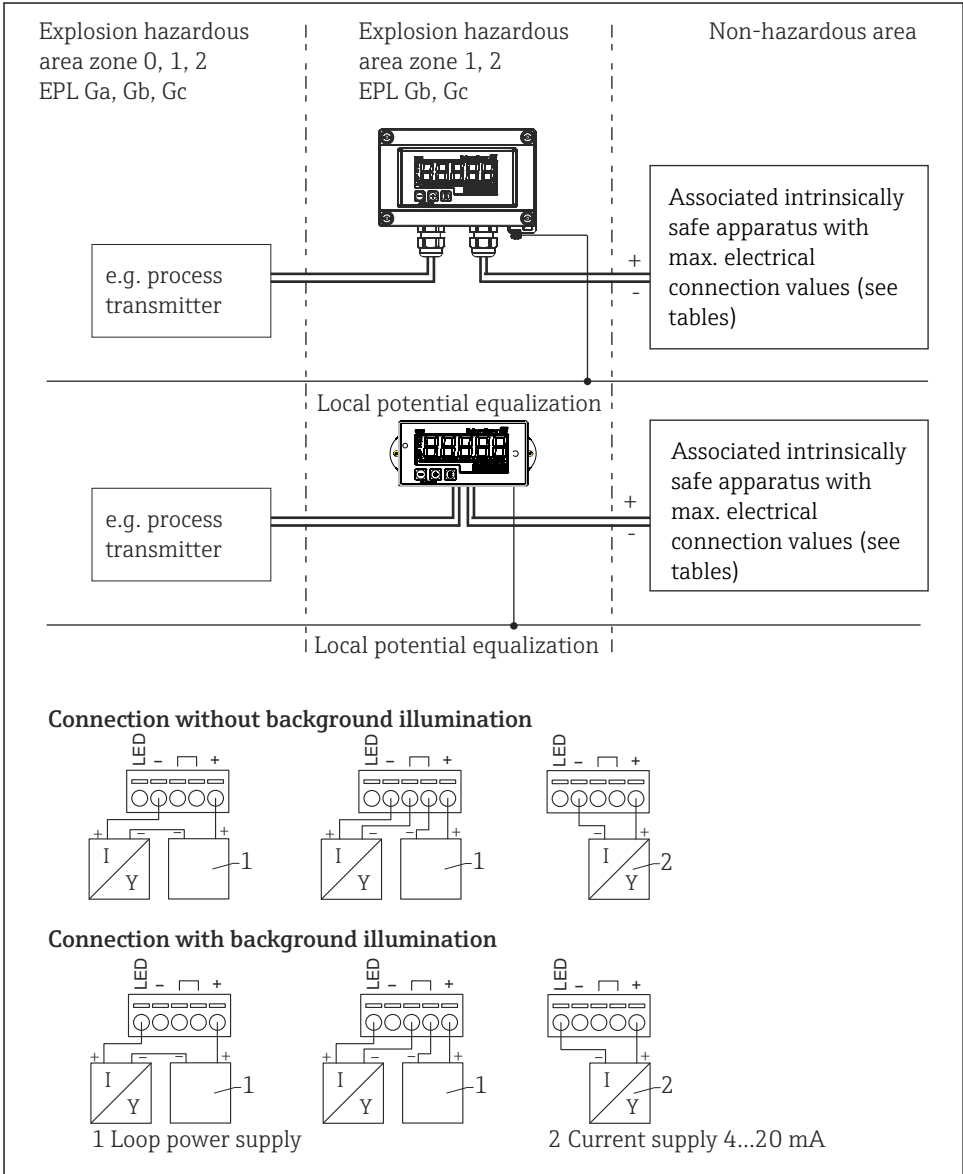
Manufacturer's certificates**NEPSI Certificate of conformity**

Certificate number: GYJ17.1044X

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

- GB3836.1-2010
- GB3836.4-2010

Safety instructions



A0018831-EN

**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 (EN / IEC 60079-14).
- The indicator housing must be connected to the potential matching line.
- This product 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.

**Safety
instructions:
Special conditions**

- The indicator 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 type of protection for the process transmitter changes as follows when the devices are connected to certified intrinsically safe circuits of Category Ex ib: Ex ib IIC. When connecting an intrinsically safe Ex ib circuit, do not operate the process transmitter at Zone 0 / EPL Ga.
- The permitted category of the intrinsically safe circuit for the process transmitter depends on the type of protection of the respective associated apparatus used.

Safety Instructions:
General

- Staff must meet the following conditions for mounting, electrical installation, commissioning and maintenance of the device:
 - Be suitably qualified for their role and the tasks they perform
 - Be trained in explosion protection
 - Be familiar with national regulations
- This product should be used in explosive gas atmospheres together with approved associated apparatus, follow the instruction manual of this product and associated apparatus when connecting the wiring. Connect the wiring terminals correctly.
- Connecting cable between intrinsically safe product and associated apparatus should be insulated screen cable; connect the cable screen functionally to earth ground.
- 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 manual and the following standards:
 - GB50257-2014 "Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering".
 - GB3836.13-2013 "Explosive atmospheres- Part 13: Equipment repair, overhaul and reclamation".
 - GB3836.15-2000 "Electrical apparatus for explosive gas atmospheres- Part 15: Electrical installations in hazardous area (other than mines)".
 - GB3836.16-2006 "Electrical apparatus for explosive gas atmospheres- Part 16: Inspection and of electrical installation (other than mines)".
 - GB3836.18-2010 "Explosive atmospheres-Part 18: safe system".

Temperature tables

Type	Temperature class	Ambient temperature
RIA15, ORIA15	T6	-40 °C ≤ Ta ≤ +60 °C (-40 °F ≤ Ta ≤ +140 °F)

Electrical connection data

RIA15, ORIA15	Electrical connection data
Supply (terminals + and - or + and LED or + and auxiliary terminal (□))	U _I ≤ 30 V _{DC} I _I ≤ 200 mA P _I ≤ 900 mW C _i = negligible L _i = 35.1 μH

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