

Safety Instructions

Deltabar S

PMD70/75, FMD76/77/78

4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

Ex nA IIC T6 Gc
GYJ14.1447



Document: XA01174P-B
Safety instructions for electrical apparatus for explosion-hazardous areas

Deltabar S

PMD70, PMD75, FMD76, FMD77, FMD78

4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

Associated Documentation

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

HART: BA00270P/00, BA00274P/00

PROFIBUS PA: BA00294P/00, BA00296P/00

FOUNDATION Fieldbus: BA00301P/00, BA00303P/00

The Operating Instructions which are supplied and correspond to the device type apply.

Supplementary Documentation

Explosion-protection brochure:

CP00021Z/11

Designation

Explanation of the labelling and type of protection can be found in the explosion protection brochure.

Designation of explosion protection

Ex nA IIC T6 Gc

Applied standards

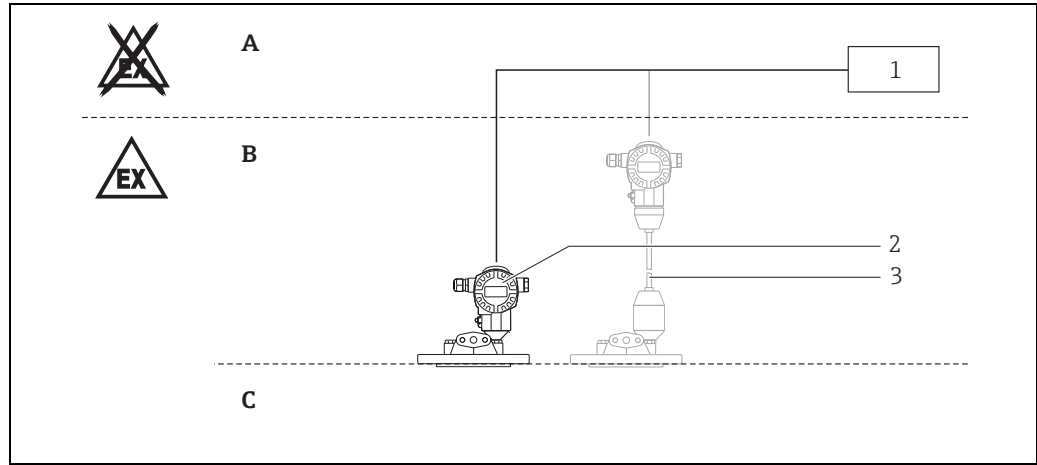
GB 3836.1-2010

GB 3836.8-2003

**Safety instructions:
Special conditions**

- The following components of the device correspond to the low risk of mechanical danger. They must be mounted in a protected position if installed within a hazardous location area rated Zone 2 if mechanical danger is expected:
 - Plug connectors
 - FMD76: flush-mounted process isolating diaphragm made of ceramic

**Safety instructions:
Installation**



- A** Power supply
B Zone 2, Electronic
C Zone 2, Process
- 1** Power supply
2 PMD70/75, FMD76/77/78
3 Option: Separate housing

- 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.
- Only install the devices in media for which the wetted materials have sufficient durability.
- Avoid electrostatic charging of the plastic surfaces, for plastic process connections or plastic coatings.
- Avoid impact or friction sparks for light metal flanges or flange faces (e.g. titanium, zirconium).
- Do not disconnect electrical connections under voltage in an explosive atmosphere.
- The external earth connection facility should be connected reliably.
- 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 the device, users must also observe the requirements stated in the Operating Instructions and the standards:
 - GB50257-1996: "Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering".
 - GB3836.13-2013: "Electrical apparatus for explosive gas atmospheres, Part 13: Repair and overhaul for apparatus used in explosive gas atmospheres".
 - 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 for explosive gas atmospheres, Part 16: Inspection and maintenance of electrical installation (other than mines)".

Temperature tables

Type of protection/level of protection	Ambient temperature
Ex nA IIC T6 Gc	$-40\text{ °C} \leq T_a \leq +65\text{ °C}$

Connection data

Electronic insert	Electrical data
4-20 mA HART	$U \leq 45\text{ V DC}$
PROFIBUS PA, FOUNDATION Fieldbus	$U \leq 32\text{ V DC}$



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