# Safety Instructions **Deltabar M PMD55**4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

Ex d IIC T6 Gb Ex d IIC T4 Gb TÜV 13.2013



Document: XA01285P-A

Safety instructions for electrical apparatus for explosion-hazardous areas

XA01285P-A Deltabar M

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# Deltabar M PMD55

4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

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

HART: BA00382P/00

PROFIBUS PA: BA00383P/00

FOUNDATION Fieldbus: BA00384P/00

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

Supplementary Explosion-protection brochure:

Documentation CP00021Z/11

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

> Ex d IIC T6 Designation of type of protection Ex d IIC T4

Applied standards ABNT NBR IEC 60079-0 :2008

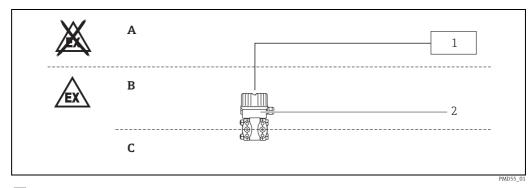
ABNT NBR IEC 60079-1 :2009

XAO1285P-A Deltabar M

### Safety instructions: General

- 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:
  - $\ \ \text{Of plastic surfaces (e.g. housing, sensor element, special varnishing , attached additional plates, ..)}$
  - Of isolated capacities (e.g. isolated metallic plates)

### Safety instructions: Installation



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- A Power supply
- B Zone 1, Electronic
- C Zone 1, Process
- 1 Power supply U
- 2 PMD55
- Do not open the connection or electronics compartments under voltage in an explosive atmosphere.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.
- The plastic sealing plug is used only as transport protection.
- Connect the device using suitable cable and wire entries or using piping systems of protection type "Pressure-tight Enclosure d".
- For connection through a conduit entry approved for this purpose the associated sealing facility shall be mounted directly to the housing.
- For ambient temperatures higher than +70 °C, use suitable heat-resisting cables or wires.
- Close unused entry glands with approved (Ex d) sealing plugs. (Sealing plugs included in delivery).
- 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).

## Temperature tables

Electronic insert	Type of protection	Temperature class	Process temperature	Ambient temperature (Housing)
4-20 mA HART	Ex d IIC T6 or T4 Gb	T6	≤ 80°C	-40 °C ≤ Ta ≤ +75 °C
		T4	≤ 120 °C	
PROFIBUS PA, FOUNDATION Fieldbus	Ex d IIC T6 or T4 Gb	T6	≤ 80 °C	-40 °C ≤ Ta ≤ +75 °C
		T4	≤ 120 °C	

The process temperatures refer to the temperature at the separation membrane (do not exceed the max. ambient temperature at the housing).

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# Connection data

Electronic insert	Electrical data
4-20 mA HART	$\begin{aligned} &U \leq 45 \text{ V DC} \\ &P \leq 1.1 \text{ W} \end{aligned}$
PROFIBUS PA, FOUNDATION Fieldbus	$U \le 32 \text{ V DC}$ $P \le 1.25 \text{ W}$

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