



Level



Pressure



Flow



Temperature



Liquid  
Analysis



Registration



Systems  
Components



Services



Solutions

Safety Instructions

# Deltabar M PMD55

4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

Ex d IIC T6 Gb

Ex d IIC T4 Gb

IECEX KEM 09.0017



**XA00463P-B**

Safety instructions for electrical apparatus for explosion-hazardous areas  
according to IEC standards



# Deltabar M PMD55

## 4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

### Associated Documentation

This document is an integral part of the following Operating Instructions:  
BA382P/00

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

### Supplementary Documentation

Explosion-protection brochure:  
CP021Z/00

### Designation

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

**Designation according to IECEx  
Equipment protection level (EPL)**

**Gb**

**Designation of explosion protection**

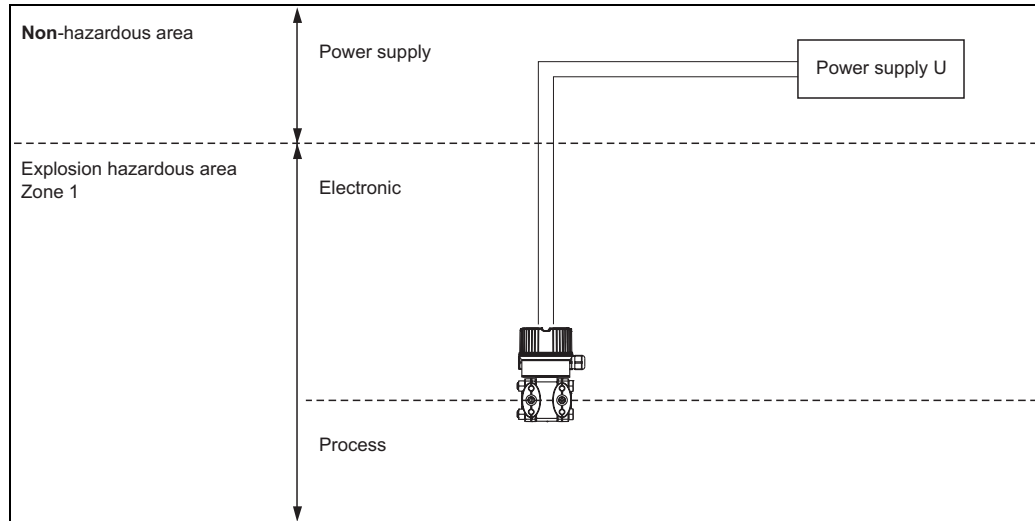
**Ex d IIC T6**

**Ex d IIC T4**

### Applied standards

**IEC60079-0 : 2007**

**IEC60079-1 : 2007**



#### Electronic insert: 4-20 mA HART

Type of protection	Electrical Data	Temperature class	Process temperature	Ambient temperature (Housing)
Ex d IIC T6 or T4 Gb	U ≤ 45 V DC P ≤ 1.1 W	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).

#### Electronic insert: PROFIBUS PA, FOUNDATION Fieldbus

Type of protection	Electrical Data	Temperature class	Process temperature	Ambient temperature (Housing)
Ex d IIC T6 or T4 Gb	U ≤ 32 V DC P ≤ 1.25 W	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).

#### 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.
- Only install the devices in media for which the wetted materials have sufficient durability.
- 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).







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