Safety Instructions **Deltabar M PMD55**

4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

II 3 G Ex ec IIC Gc







Deltabar M PMD55

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About this document	This document has been translated into several languages. Legally determined is solely the English source text.			
	 The document translated into EU languages is available: In the download area of the Endress+Hauser website: www.endress.com -> Downloads -> Manuals and Datasheets -> Type: Ex Safety Instruction (XA) -> Text Search: In the Device Viewer: www.endress.com -> Product tools -> Access device specific information -> Check device features 			
	If not yet available, the document can be ordered.			
Associated documentation	This document is an integral part of the following Operating Instructions:			
	HART BA00382P/00			
	PROFIBUS PA BA00383P/00			
	FOUNDATION Fieldbus BA00384P/00			
Supplementary	Explosion-protection brochure: CP00021Z/11			
documentation	 The Explosion-protection brochure is available: In the download area of the Endress+Hauser website: www.endress.com -> Downloads -> Brochures and Catalogs -> Text Search: CP00021Z On the CD for devices with CD-based documentation 			
Manufacturer's	EU Declaration of Conformity			
certificates	Declaration Number: EU_00934			
	The EU Declaration of Conformity is available: In the download area of the Endress+Hauser website: www.endress.com -> Downloads -> Declaration -> Type: EU Declaration -> Product Code:			
	EU type-examination certificate			
	Certificate number:			

EU 00934 X

	List of applied standards: See EU Declaration of Conformity.				
Manufacturer address	Endress+Hauser SE+Co. KG Hauptstraße 1 79689 Maulburg, Germany Address of the manufacturing plant: See nameplate.				
Other standards	 Among other things, the following standards shall be observed in their current version for proper installation: IEC/EN 60079-14: "Explosive atmospheres - Part 14: Electrical installations design, selection and erection" EN 1127-1: "Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology" 				
Extended order code	The extended order code is indicated on the nameplate, which is affixed to the device in such a way that it is clearly visible. Additional information about the nameplate is provided in the associated Operating Instructions.				
	Structure of the extended order code				
	PMD55 – ********* + A*B*C*D*E*F*G*				
	(Device (Basic (Optional type) specifications) specifications)				
	 * = Placeholder At this position, an option (number or letter) selected from the specification is displayed instead of the placeholders. 				
	 Basic specifications The features that are absolutely essential for the device (mandatory features) are specified in the basic specifications. The number of positions depends on the number of features available. The selected option of a feature can consist of several positions. Optional specifications The optional specifications describe additional features for the device (optional features). The number of positions depends on the number of geatures available. The features have a 2-digit structure to aid identification (e.g. JA). The first digit (ID) stands for the feature group and consists of a number or a letter (e.g. J = Test, Certificate). The 				

second digit constitutes the value that stands for the feature within the group (e.g. A = 3.1 material (wetted parts), inspection certificate).

More detailed information about the device is provided in the following tables. These tables describe the individual positions and IDs in the extended order code which are relevant to hazardous locations.

Extended order code: Deltabar M



The following specifications reproduce an extract from the product structure and are used to assign:

- This documentation to the device (using the extended order code on the nameplate).
- The device options cited in the document.

Device type

PMD55

Basic specifications

Position 1, 2 (Approval)		
Selected option		Description
PMD55	BD	ATEX II 3 G Ex ec IIC T6T4 Gc

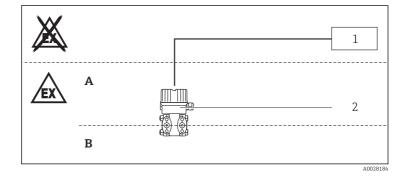
Position 3 (Output)	
Selected option		Description
PMD55	2	4-20 mA HART
	3	PROFIBUS PA
	4	FOUNDATION Fieldbus

Optional specifications

No options specific to hazardous locations are available.

Safety instructions: General	 The device is intended to be used in explosive atmospheres as defined in the scope of EN IEC 60079-0 or equivalent national standards. If no potentially explosive atmospheres are present or if additional protective measures have been taken: The device may be operated according to the manufacturer's specifications. 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 Comply with the installation and safety instructions in the Operating Instructions. Install the device according to the manufacturer's instructions and national regulations. Only use the device in media to which the wetted materials have sufficient durability. Avoid electrostatic charging: Of plastic surfaces (e.g. enclosure, sensor element, special varnishing, attached additional plates,) Of isolated capacities (e.g. isolated metallic plates)
Safety instructions: Special conditions	 In the case of process connections made of polymeric material or with polymeric coatings, avoid electrostatic charging of the plastic surfaces. For light metal flanges or flange faces (e.g. titanium, zirconium), avoid sparks caused by impact and friction. In the event of additional or alternative special varnishing on the enclosure or other metal parts: Observe the danger of electrostatic charging and discharge. Do not rub surfaces with a dry cloth. In a condensing atmosphere: The device must not be serviced or installed. The device must be externally protected against transient overvoltage up to 140 % of the maximum voltage.

Safety instructions: Installation



- A Electronic; Zone 2
- B Process; Zone 2
- 1 Power supply
- 2 PMD55

In potentially explosive atmospheres: Do not disconnect electrical connections when energized.

Temperature tables	Type of protection	Temperature class	Ambient temperature T _a (ambient): enclosure
	II 3 G Ex ec IIC T6T4 Gc	Т6	$-40 \ ^\circ\text{C} \le T_a \le +40 \ ^\circ\text{C}$
		T4	$-40 \text{ °C} \le T_a \le +70 \text{ °C}$

Connection data

Basic specification, Position 3 = 2

Power supply
$U \le 45 V_{DC}$

Basic specification, Position 3 = 3, 4

Power supply	
$U \le 32 V_{DC}$	



71548392

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