



Safety Instructions

Deltabar S

PMD70, PMD75, FMD76, FMD77, FMD78
4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

Ex ia IIC T6...T4 Ga/Gb

IECEX KEM06.0011



XA00695P-D

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

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: BA270P/00, BA274P/00

PROFIBUS PA: BA294P/00, BA296P/00

FOUNDATION Fieldbus: BA301P/00, BA303P/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)**

Ga/Gb

Designation of explosion protection

Ex ia IIC T6...T4 Ga/Gb

Applied standards

IEC 60079-0 :2011

IEC 60079-11 :2011

IEC 60079-26 :2006

Temperature tables

Type of protection/ level of protection	Type	Temperature class	Process temperature	Ambient temperature (Housing)
Ex ia IIC T6...T4 Ga/Gb	all	T6	$\leq 80\text{ °C}$	$-40\text{ °C} \leq T_a \leq +40\text{ °C}$
	PMD70, FMD76	T4	$\leq 85\text{ °C}$	$-40\text{ °C} \leq T_a \leq +70\text{ °C}$
	PMD75		$\leq 120\text{ °C}$	

The process temperatures refer to the temperature at the separation membrane of PMD70, PMD75 and FMD76.
For FMD77 and FMD78, higher temperatures are permitted depending on the type of diaphragm seal (do not exceed the max. ambient temperature at the housing).

Connection data

Electronic insert: 4-20 mA HART
$U_i \leq 30\text{ V DC}$ $I_i \leq 300\text{ mA}$ $P_i \leq 1\text{ W}$ $C_i \leq 11.8\text{ nF}$ $L_i \leq 225\text{ }\mu\text{H}$ (Order code, Position 2 "Output; Operation": A, B, C) or $L_i = 0$ (Order code, Position 2 "Output; Operation": D, E, F)

Electronic insert: PROFIBUS PA, FOUNDATION Fieldbus
$U_i \leq 17.5\text{ V DC}$ $I_i \leq 500\text{ mA}$ $P_i \leq 5.5\text{ W}$ or $U_i \leq 24\text{ V DC}$ $I_i \leq 250\text{ mA}$ $P_i \leq 1.2\text{ W}$ $C_i \leq 5\text{ nF}$ $L_i \leq 10\text{ }\mu\text{H}$ (suitable for connection to a fieldbus system according to the FISCO model)

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