

Safety Instructions

Cerabar M

PMC51

4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

Ex ia IIIC T75 °C T₅₀₀ 100 °C Da/Db (HART)

Ex ia IIIC T75 °C T₅₀₀ 105 °C Da/Db (PA, FF)

IECEX KEM 09.0016

Document: XA00487P-B

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

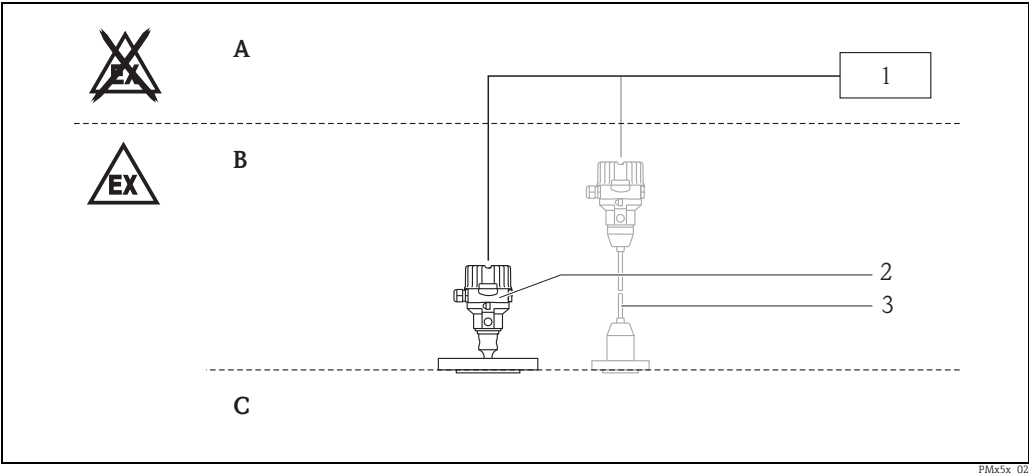
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english

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Associated Documentation	<p>This document is an integral part of the following Operating Instructions: BA00382P/00</p> <p>The Operating Instructions which are supplied and correspond to the device type apply.</p>										
Supplementary Documentation	<p>Explosion-protection brochure: CP00021Z/11</p>										
Designation	<p>Explanation of the labelling and type of protection can be found in the explosion protection brochure.</p>										
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Designation according to IECEx Equipment protection level (EPL)				Da/Db							
Designation of type of protection/ level of protection				HART:	Ex	ia	IIIC	T75 °C	T ₅₀₀	100 °C	Da/Db
				PA, FF:	Ex	ia	IIIC	T75 °C	T ₅₀₀	105 °C	Da/Db
Applied standards				<p>IEC 60079-0 :2011 IEC 60079-11 :2011</p>							

Safety instructions:
Installation



- A** Power supply
B Zone 21, Electronic
C Zone 20, Process
1 Certified associated apparatus
2 PMC51
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.
- Do not open in a potentially explosive dust atmosphere.
- Seal the cable entry or piping tight (see housing ingress protection in the table above).
- Only use cable glands with IECEx Ex e or dust Ex approval or metallic glands with min. IP65 ingress protection. Lay connecting cable strong.

Temperature tables

Electronic insert	Type of protection/ level of protection	Ingress protection of housing	Max. surface temperature under fault conditions	Ambient temperature (Housing)
4-20 mA HART	Ex ia IIIC T75 °C T ₅₀₀ 100 °C Da/Db	IP66/67	without immersion: +75 °C; under 500 mm immersion: +100 °C (measured at Ta = +70 °C)	-40 °C ≤ Ta ≤ +70 °C
PROFIBUS PA, FOUNDATION Fieldbus	Ex ia IIIC T75 °C T ₅₀₀ 105 °C Da/Db	IP66/67	without immersion: +75 °C; under 500 mm immersion: +105 °C (measured at Ta = +70 °C)	-40 °C ≤ Ta ≤ +70 °C

Connection data

Electronic insert	Electrical data
4-20 mA HART	Ui ≤ 30 V DC, Ii ≤ 300 mA, Pi ≤ 1 W Ci ≤ 10 nF, Li = 0
PROFIBUS PA, FOUNDATION Fieldbus	Ui ≤ 17.5 V DC, Ii ≤ 500 mA, Pi ≤ 5.5 W Ci ≤ 5 nF, Li ≤ 10 µH (FISCO field device) or Ui ≤ 24 V DC, Ii ≤ 250 mA, Pi ≤ 1.2 W Ci ≤ 5 nF, Li ≤ 10 µH



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