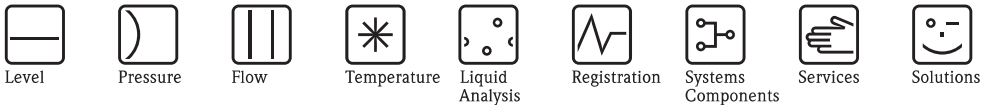

Safety Instructions

Cerabar S
PMC71
4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

Ex d ia IIC T6 Gb

IECEx KEM 10.0031

XA00511P-B

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

XA00511P-B/00/EN/13.13
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People for Process Automation

Cerabar S
PMC71

4-20 mA HART, PROFIBUS PA, FOUNDATION Fieldbus

Associated Documentation

This document is an integral part of the following Operating Instructions:
HART: BA00271P/00, BA00274P/00
PROFIBUS PA: BA00295P/00, BA00296P/00
FOUNDATION Fieldbus: BA00302P/00, BA00303P/00

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

Supplementary Documentation

Explosion-protection brochure:
CP021Z/00

Designation

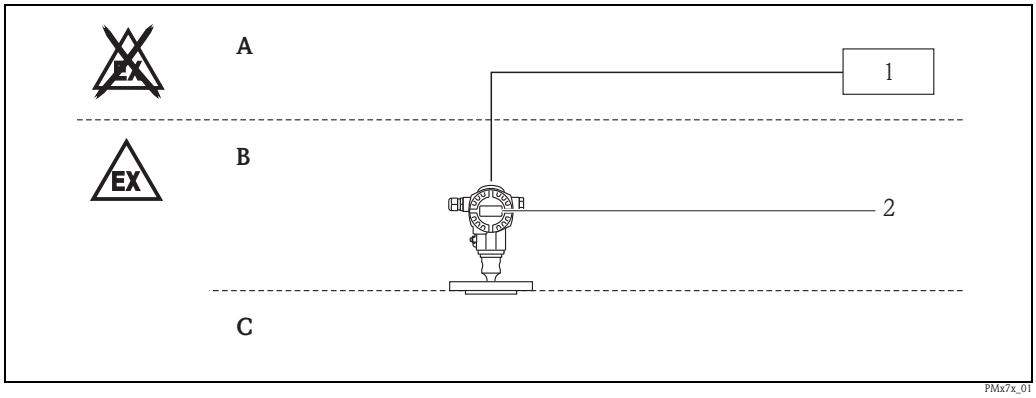
Explanation of the labelling and type of protection can be found in the explosion protection brochure.

Designation according to IECEx	
Equipment protection level (EPL)	**Gb**
Designation of type of protection	**Ex d ia IIC T6 Gb** **Ex d ia IIC T4/T3 Gb**

Applied standards

IEC60079-0 : 2011
IEC60079-1 : 2007
IEC60079-11 : 2011

Safety instructions:
Installation



1

A *Power supply*
B *Zone 1, Electronic*
C *Zone 1, Process*

1 *Power supply*
2 *PMC71*

- 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 in an explosive atmosphere.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.
- After aligning (rotating) the housing, retighten the fixing screw.
- 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.
- 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).
- In case of additional or alternative special varnishing of the enclosure or other metallic parts the danger of an electrostatic charging must be observed. Do not rub surfaces with dry cloth.
- Seal unused entry glands with approved sealing plugs that correspond to the type of protection. The plastic transport sealing plug does not meet this requirement and must therefore be replaced during installation.
- Only use certified cable entries or sealing plugs. The metal sealing plugs supplied meet this requirement.
- Only use genuine spare parts from Endress+Hauser which are specified for the device.

Instructions:
Ex d joints

Specification according to IEC/EN 60079-1:2007, Chapter 5.1
- If required or if in doubt: ask manufacturer for specifications.

Temperature tables

Type of protection/ level of protection	Type	Temperature class	Process temperature	Ambient temperature (Housing)
Ex d ia IIC T6 Gb	PMC71	T6	≤ 80 °C	–40 °C ≤ Ta ≤ +40 °C
Ex d ia IIC T4/T3 Gb	PMC71	T4	≤ 120 °C	–40 °C ≤ Ta ≤ +70 °C
	PMC71 High temperature	T3	≤ 150 °C	

Connection data

Electronic insert	Electrical data
4-20 mA HART	U ≤ 45 V DC P ≤ 3 W
PROFIBUS PA, FOUNDATION Fieldbus	U ≤ 32 V DC P ≤ 3 W

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