

Instructions

Pressure Transmitter

LHCR-51

4 mA ... 20 mA HART, PROFIBUS PA

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

Ex ta IIIC T75 °C T₅₀₀ 105 °C Da/Db (PROFIBUS PA)

IECEX DEK 13.0056



SI004790-B

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



Pressure Transmitter LHCR-51

4 mA ... 20 mA HART, PROFIBUS PA

Associated Documentation	This document is an integral part of the following operating instructions: BA00382O. The operating instructions which are supplied and correspond to the device type apply.							
Supplementary Documentation	Explosion protection manual							
Designation	Explanation of the labelling and type of protection can be found in the explosion protection manual.							
	Designation according to IECEx Equipment protection level (EPL)		Da/Db					
	Designation of type of protection/ level of protection	HART PA	Ex ta Ex ta	IIIC IIIC	T75 °C T75 °C	T₅₀₀ T₅₀₀	100 °C 105 °C	Da/Db Da/Db
Applied standards	IEC 60079-0:2011 IEC 60079-31:2008							

Safety instructions:
Installation

EN

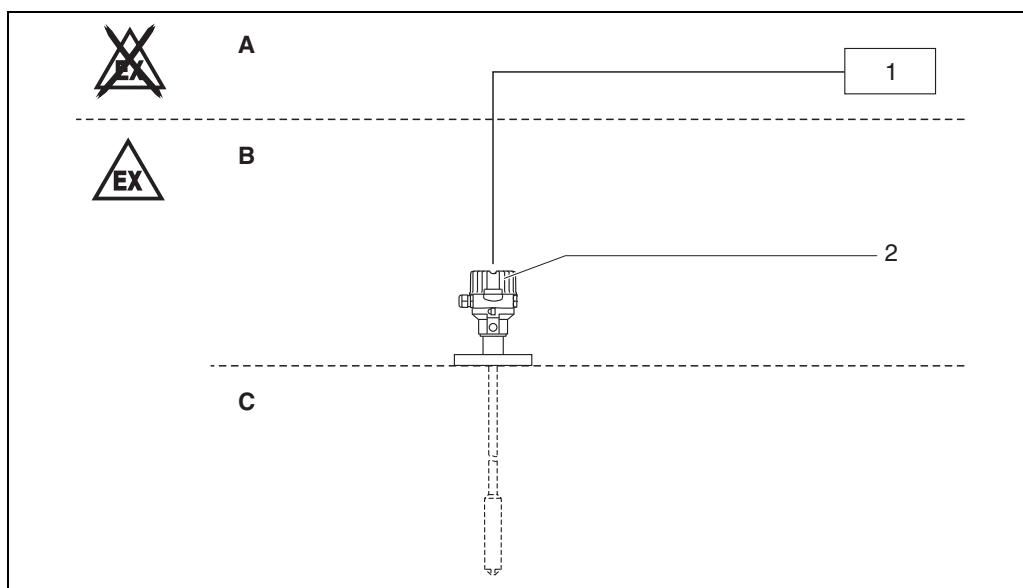


Figure 1

- A Power supply
- B Zone 21, Electronic
- C Zone 20, Process
- 1 Power supply U
- 2 LHCR-51

- 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).
- Only use cable glands with IECEx Ex e or dust Ex approval or metallic glands with min. IP65 ingress protection. Lay connecting cable strong.
- Mechanically fix rod probes which are more than 3 m (e. g. using guy ropes).

Temperature tables

Electronic insert	Type of protection/ level of protection	Ingress protection of housing	Max. surface temperature at Ta max.	Ambient temperature (housing)
4 mA 20 mA HART	Ex ta 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	Ex ta 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	Electronic data
4 mA 20 mA HART	Power supply Ui ≤ 45 V DC
PROFIBUS PA	Power supply Ui ≤ 32 V DC





With regard to the supply of products, the current issue of the following document is applicable: The General Terms of Delivery for Products and Services of the Electrical Industry, published by the Central Association of the "Elektrotechnik und Elektroindustrie (ZVEI) e.V." including the supplementary clause: "Erweiterter Eigentumsvorbehalt".

PROCESS AUTOMATION – PROTECTING YOUR PROCESS



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