



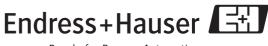
Safety Instructions Waterpilot FMX21

Ex ia IIC T6...T4 Gb IECEx KEM 09.0026



XA455P-A

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



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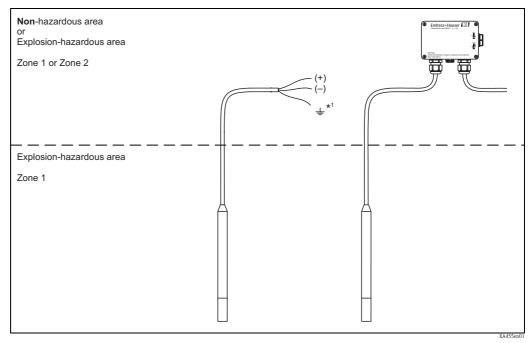
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Waterpilot FMX21

Associated Documentation	This document is an integral part of the following Operating Instructions: BA380P/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 of explosion protection

Ex ia IIC T6...T4 Gb



*¹ Only for versions with outside diameters 22 mm and 42 mm.

Type of protection / Equipment Protection Level (EPL)	Ambient temperature range	Temperature class	Max. ambient temperature	Electrical Data
Ex ia IIC T6T4 Gb	-10 °C ≤ Ta ≤ +70 °C	T4	+70 °C	Ui \leq 30 V DC li \leq 133 mA Pi \leq 1 W Sensor: Ci \leq 10.3 nF, Li $=$ 0 Cable: Ci \leq 180 pF/m, Li \leq 1 µH/m
		T5	+55 °C	
		Тб	+40 °C	

Terminal box

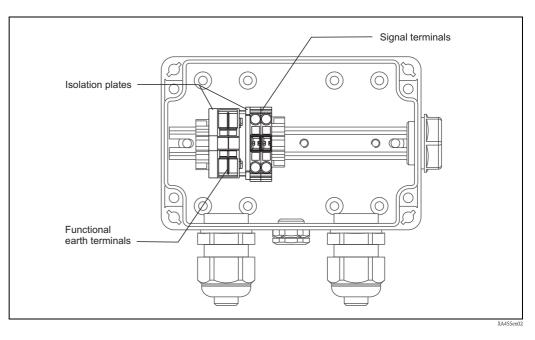
Temperature class	Ambient temperature range
Τ6	-40 °C \leq Ta \leq +80 °C

Safety instructions: Installation

- 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.
 - The type of protection changes as follows when the devices are connected to certified intrinsically safe circuits of Category ib: Ex ib.
 - When interconnecting intrinsically safe circuits, take into account sensor capacitance and length-dependent cable capacitance and inductance (see table).
 - Connect cable screen to earth ground of the installation.
 - The intrinsically safe input power circuit of the device is isolated from ground potential and has a dielectric strength of at least 500 V_{rms} with respect to it.
 When shortening the length of the cable ensure that this dielectric strength is maintained for connection wires and earth grounded screen.
 - Avoid impact and friction sparks (anchor equipment if necessary/secure against swinging).
 - Avoid electrostatic charging of the plastic surfaces (especially at the version with outside diameter 29 mm and at the terminal box).

Do not rub. Do not use in media or environments which may generate electrostatic charges on the plastic surfaces.

Terminal box



- Use a connecting cable for continuous duty temperature ≥ 85 °C.
 Do not remove or move terminal blocks, isolation plates or fastening elements.
- Do not build in additional components.

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