

Safety Instructions

RU48

FlexView FMA90

[Ex ia Ga] IIC
[Ex ia Da] IIIC



RU48

FlexView FMA90

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About this document

The document number of these Safety Instructions (XA) must match the information on the nameplate.

Associated documentation

To commission the device, please observe the Operating Instructions pertaining to the device:

www.endress.com/<product code>, e.g. FMA90

Supplementary documentation

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:

www.endress.com/Downloads

Certificates and declarations**Korean certificate**

Certificate number:

25-KA4BO-0578X

25-KA4BO-0577X

Affixing the certificate number certifies conformity with the following standards (depending on the device version)

Protect Device Safety Certification Notice No. 2021-22

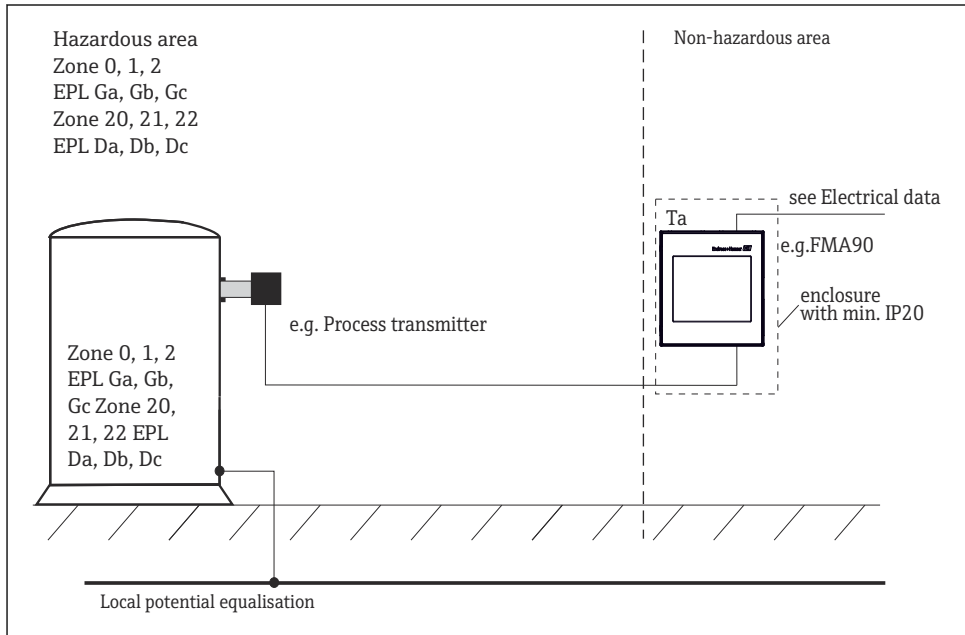


Please refer to Korean certificates for conditions of safe use.

Manufacturer address

Endress+Hauser Wetzer GmbH + Co. KG
Obere Wank 1
87484 Nesselwang, Germany

Safety instructions



A0058500

Safety instructions: Intrinsic safety

- 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 (e.g. EN/IEC 60079-14).
- The unit is an associated electrical apparatus and can only be installed outside the hazardous area.
- The unit must be installed in such way that a minimum ingress protection of IP 20 is achieved.
- When installing the unit care must be taken that there must be a spacing of at least 50 mm(zone radius) to the intrinsically safe terminals

Safety instructions:
Specific conditions of use

- The DIN/Panel versions shall be installed in a suitable enclosure based on the environmental conditions of the end application and acceptable to the Authority having Jurisdiction.
- The polymeric field housing shall be fitted with suitable cable entry devices compatible with the environmental conditions and Ingress protection level required.

Housing	Ambient temperature Ta
DIN rail mounting, Polycarbonat (A)	-40 to +60 °C
DIN rail mounting, Polycarbonat (B) Field mounting, Polycarbonat (C)	-35 to +60 °C

Type	Electrical data		
RU48, FMA90	Supply: terminals L/+, N/-		U = 10.5 to 32 V _{DC} U = 85 to 253 V _{AC} ^{50/60} Hz Um = 250 V
	Analog In: terminals 11-12, 21-22		2 to 22 mA
	LPS (Loop Power Supply): terminals 13, 23		14 to 27 V _{DC}
	Analog Out: terminals 71/72, 73/74		0 to 23 mA (22.5 mA DC + 0.5 mA HART)
	Digital input, passive: terminals 52-55		max. 30 V _{DC}
	Open Collector		max. 30 V _{DC} , max. 120 mA
	Output circuits, limit value relay: terminals	111 trough 114, 211 trough 214, x13 trough x14	4 A, 250 V _{AC} , 1000 VA 4 A, 30 V _{DC}
	Output circuit:		U = 30 V _{DC} I = 0/4-20 mA Um = 250 V
	Input circuit: terminals 11, 12, 13, 13 optional: 21, 22, 23, 23		U _o ≤ 27.3 V _{DC} I _o ≤ 84.1 mA P _o = 574 mW C _i = negligibly small L _i = negligibly small

Type	Electrical data			
	Maximum connection values Single values:	Ex ia IIC Ex ia IIB Ex ia IIA	Lo = 1.7 mH Lo = 25 mH Lo = 47 mH	Co = 65 nF Co = 551 nF Co = 1 790 nF
	Combined values:	Ex ia IIC Ex ia IIB Ex ia IIA	Lo = 0.5 mH Lo = 2 mH Lo = 20 mH	Co = 0.065 µF Co = 0.390 µF Co = 1.3 µF



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www.addresses.endress.com
