

Safety Instructions

RU48

FlexView FMA90

ATEX, IECEx: [Ex ia Ga] IIC
[Ex ia Da] IIIC



RU48

FlexView FMA90

Table of contents

About this document 3

Associated documentation 3

Supplementary documentation 3

Certificates and declarations 3

Manufacturer address 3

Safety instructions 4

Safety instructions: Intrinsic safety 4

Safety instructions: Specific conditions of use 5

Electrical data 5

About this document

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

Associated documentation

All documentation is available on the Internet:

www.endress.com/Deviceviewer

(enter the serial number from the nameplate).



If not yet available, a translation into EU languages can be ordered.

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

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

Supplementary documentation

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:

www.endress.com/Downloads

Certificates and declarations**IECEX certificate**

Certificate number: IECEX CSA 25.0033X

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

- IEC 60079-0: 2017
- IEC 60079-11: 2011

ATEX certificate

Certificate number: CSANe 25ATEX1049X

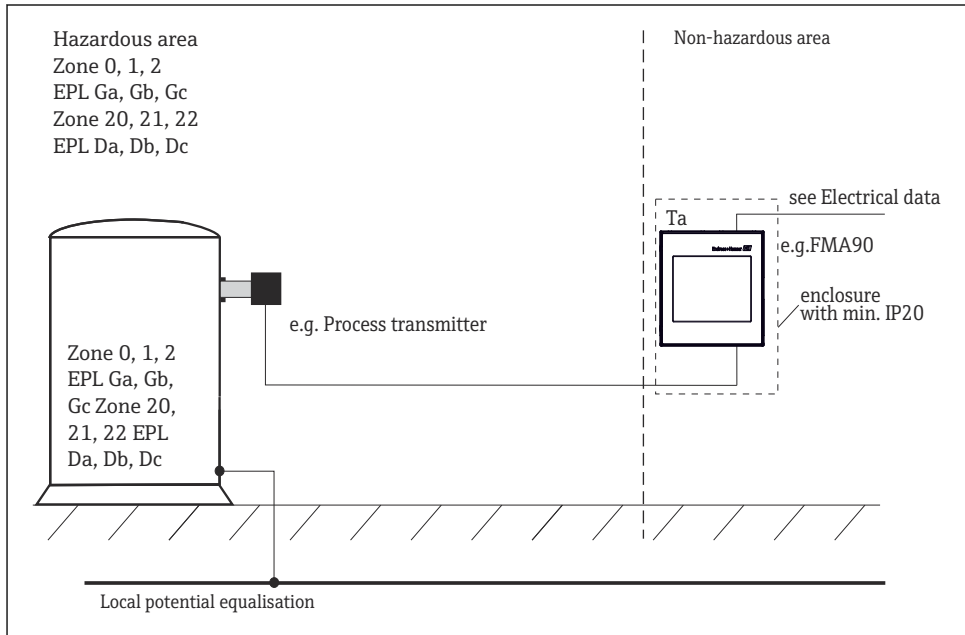
Manufacturer address

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.

Category	Type of protection (ATEX/IECEX)
II(1)G	[Ex ia Ga] IIC
II(1)D	[Ex ia Da] IIIC

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

Type	Electrical data			
	Input circuit: terminals 11, 12, 13, 13 optional: 21, 22, 23, 23		Uo ≤ 27.3 V _{DC} Io ≤ 84.1 mA Po = 574 mW Ci = negligibly small Li = negligibly small	
	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



71650232

www.addresses.endress.com
