

# FB Remote I/O Field Unit

## FB9224-PF0-A-0A0-00-0



- Standard enclosure for FB-System (base unit)
- Installation in Zone 1 and Zone 21
- Packaged certified solution
- Max. 24 slots for I/O modules
- Impact resistance enclosure, IP66
- For PROFIBUS DP, PROFIBUS DP V1, MODBUS RTU and MODBUS TCP

Field Unit, Polyester (GRP)

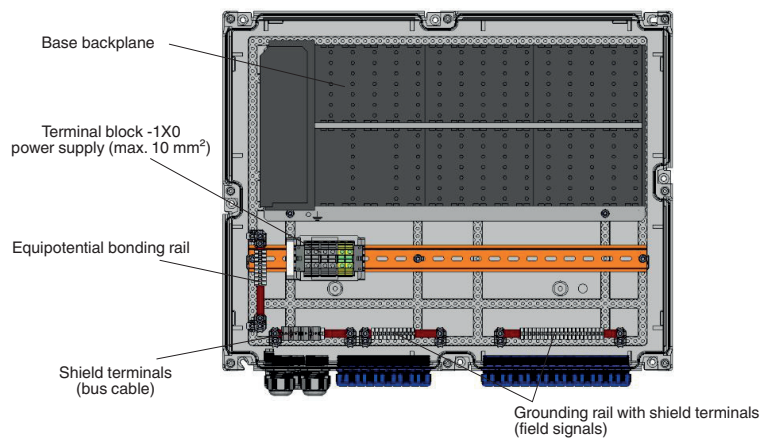


### Function

This field unit is designed to meet the requirements of the most demanding hazardous area and industrial environmental applications. Glass fiber-reinforced polyester provides corrosion resistance. It is easy to modify and light weight. The surface resistance avoids electrostatic charge.

It is equipped with plug-in slots for 12 dual width I/O modules or 24 single width I/O modules. Any I/O module can be inserted into any slot, enabling a mixture of I/O types in one field unit.

### Assembly



Drawn without cover !

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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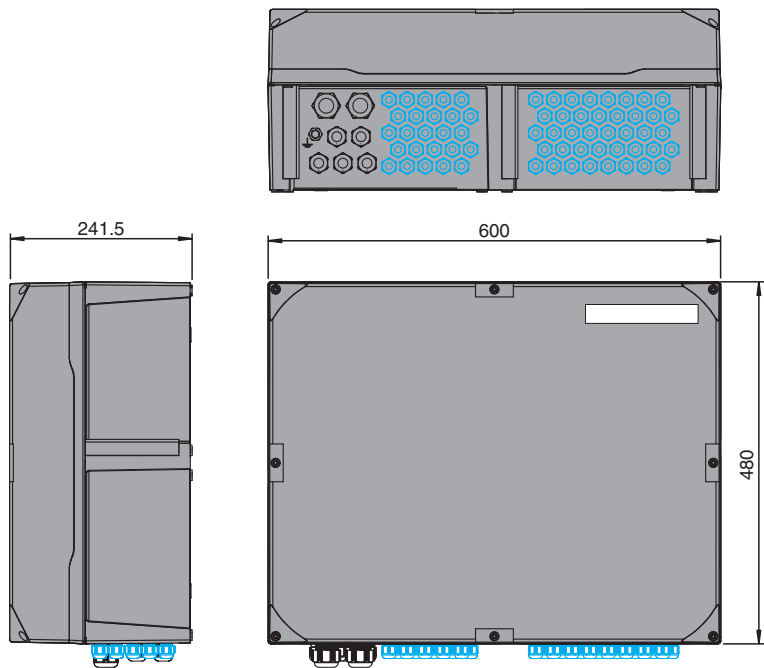
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**Dimensions**



**Technical Data**

<b>Slots</b>		
Bus coupler		1
Bus termination		1
Supply		1
I/O modules (single width)		max. 24
I/O modules (dual width)		max. 12
<b>Supply</b>		
Connection		screw terminals, max. 10 mm <sup>2</sup>
Rated voltage	U <sub>r</sub>	24 V DC/115 V AC/230 V AC , depends on power supply
Redundancy		no
<b>Fieldbus interface</b>		
Fieldbus type		PROFIBUS DP/DP-V1, MODBUS RTU, or MODBUS TCP , depends on bus coupler
Connection		spring terminal, max. 2.5 mm <sup>2</sup>
Redundancy		no
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61439-1:2012 (J.9.2.2 b) , EN 61439-2:2012
<b>Conformity</b>		
Degree of protection		EN 60529
Impact resistance		EN 60079-0
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 40 °C (-4 ... 104 °F)
Storage temperature		-25 ... 70 °C (-13 ... 158 °F)
Relative humidity		< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Shock resistance		shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance		frequency range 10 ... 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Impact resistance		7J

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**Technical Data**

<b>Mechanical specifications</b>	
Enclosure cover	detachable cover with retaining screws
Degree of protection	IP66
Cable entry	power supply (Ex e): 2 x M25 (Ø 10 mm ... 18 mm) bus (Ex e): 4 x M20 (Ø 6 mm ... 12 mm) system (Ex e): 1 x M20 (Ø 6 mm ... 12 mm) field signals (Ex i): 65 x M16 (Ø 4 mm ... 8 mm)
<b>Material</b>	
Housing	carbon loaded, antistatic glass fiber reinforced polyester (GRP)
Surface	inherent color black
Cable gland	Polyamide (PA)
Seal	housing: foamed silicone cable gland: chloroprene
Material thickness	enclosure body: 6 mm enclosure cover: 4 mm
Mass	approx. 19 kg , without modules
Dimensions	(W x H x D) 600 x 480 x 241.5 mm
Mounting	thru-holes Ø7.0 mm
Grounding	M6 internal/external brass nickel-plated grounding bolt
<b>Data for application in connection with hazardous areas</b>	
EU-type examination certificate	PTB 97 ATEX 1075 X
Marking	Ⓜ II 2(1)G Ex db eb ia mb q [ia Ga/ib] IIC T4 Gb Ⓜ II 2(1)D Ex tb [ia Da/ib] IIIC T130°C Db
<b>Directive conformity</b>	
Directive 2014/34/EU	EN 60079-0:2018 , EN 60079-1:2014 , EN 60079-5:2015 , EN 60079-7:2015 , EN 60079-11:2012 , EN 60079-18:2015 , EN 60079-31:2014
<b>General information</b>	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

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