



FB Remote I/O Field Unit

FB9221-PF0-A-0A0-00-0

- Standard enclosure for FB-System
- Installation in Zone 1 and Zone 21
- Packaged certified solution
- Max. 20 slots for I/O modules
- Impact resistance enclosure, IP66
- Redundancy (field bus and power supply)
- For PROFIBUS DP, PROFIBUS DP V1, MODBUS RTU and MODBUS TCP

Field Unit, Polyester (GRP)



Function

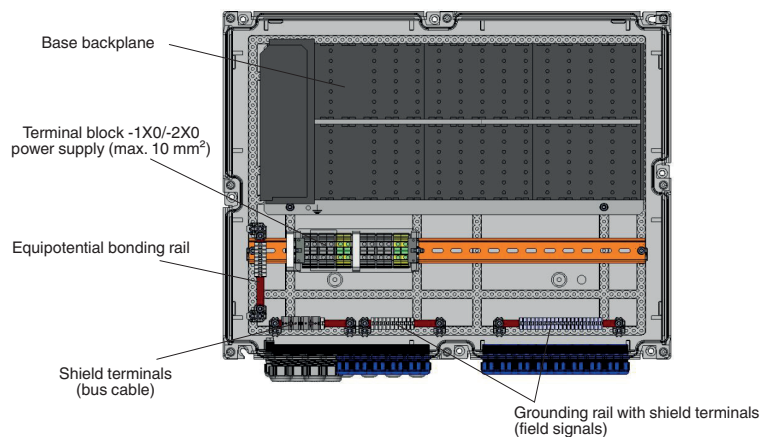
This field unit is designed to meet the requirements of the most demanding hazardous area and industrial environmental applications. Glass fiber reinforced polyester provides corrosion resistance. It is easy to modify and is lightweight. The surface resistance avoids electrostatic charge.

It is equipped with plug-in slots for 10 dual width I/O modules or 20 single width I/O modules.

The fieldbus and power supply are equipped with redundant connections.

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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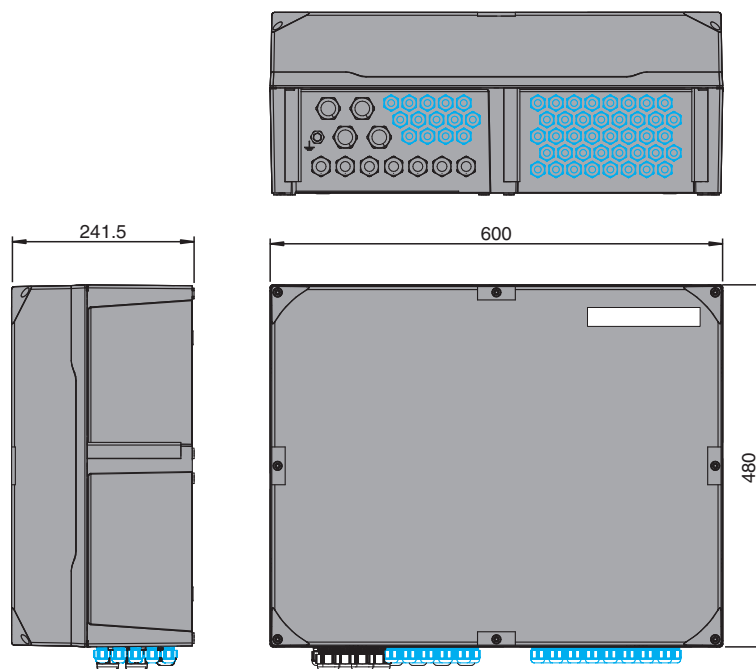
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Dimensions



Technical Data

Slots

Bus coupler	2
Bus termination	2
Supply	2
I/O modules (single width)	max. 20
I/O modules (dual width)	max. 10

Supply

Connection	screw terminals, max. 10 mm ²
Rated voltage	U _r 24 V DC/115 V AC/230 V AC , depends on power supply
Redundancy	yes

Fieldbus interface

Fieldbus type	PROFIBUS DP/DP-V1, MODBUS RTU, or MODBUS TCP , depends on bus coupler
Connection	spring terminal, max. 2.5 mm ²
Redundancy	yes

Directive conformity

Electromagnetic compatibility	
Directive 2014/30/EU	EN 61439-1:2012 (J.9.2.2 b) , EN 61439-2:2012

Conformity

Degree of protection	EN 60529
Impact resistance	EN 60079-0

Ambient conditions

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

Mechanical specifications

Enclosure cover		detachable cover with retaining screws
Degree of protection		IP66
Cable entry		power supply (Ex e): 4 x M25 (Ø 10 mm ... 18 mm) bus (Ex e): 6 x M20 (Ø 6 mm ... 12 mm) system (Ex e): 1 x M20 (Ø 6 mm ... 12 mm) field signals (Ex i): 54 x M16 (Ø 4 mm ... 8 mm)
Material		
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

Data for application in connection with hazardous areas

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
Directive conformity		
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

General information

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 www.pepperl-fuchs.com .
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