



## FB Remote I/O Field Unit

FB9220-T6\*-\*-\*\_\*\_\*\_\*-Y\*

- Preconfigured enclosures for engineered FB systems
- Installation in Zone 1 and Zone 21
- Installation in Zone 2 and Zone 22
- Max. 20 slots for I/O modules
- Impact resistance enclosure, IP66
- For PROFIBUS DP, PROFIBUS DP V1, MODBUS RTU and MODBUS TCP
- Image is generic for this device type and may deviate from the specific variant

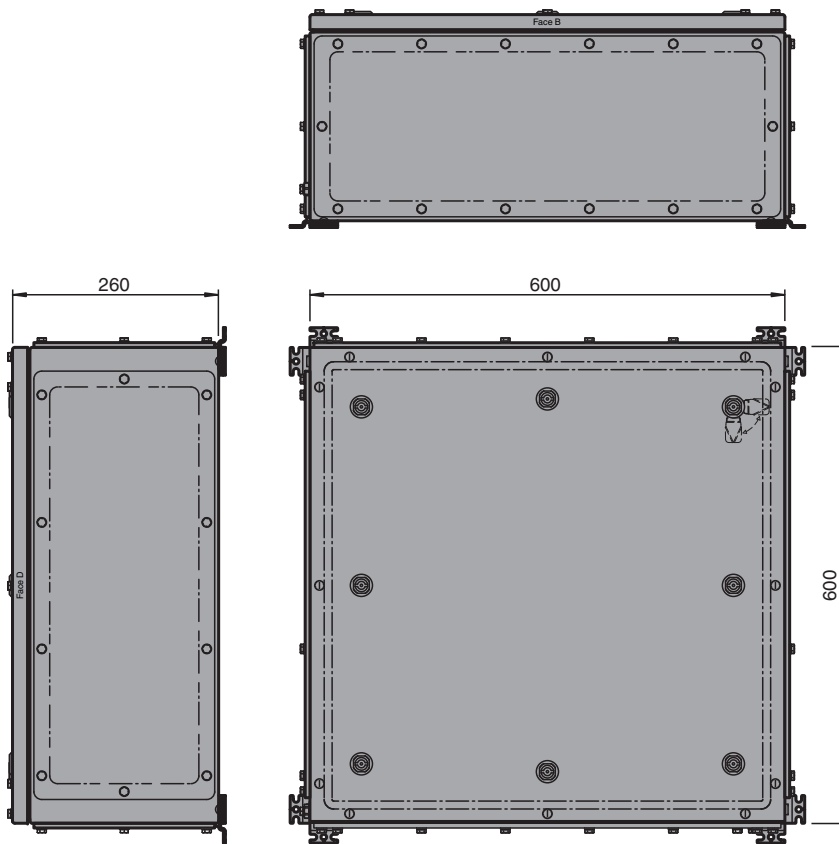
Field Unit, Stainless Steel



### Function

This field unit is designed to meet the requirements of the most demanding hazardous area and industrial environmental applications. Brushed stainless steel 316L provides high corrosion and impact resistance at a very wide temperature range. It is equipped with a base backplane. It provides 20 slots for I/O modules. The I/O modules can be plugged anywhere on each slot. The fieldbus and power supply are equipped with non-redundant connections.

**Dimensions**



**Technical Data**

|                               |                                                                       |
|-------------------------------|-----------------------------------------------------------------------|
| <b>General specifications</b> |                                                                       |
| Installed components          | 1x backplane FB9262BP20220.x                                          |
| <b>Slots</b>                  |                                                                       |
| Bus coupler                   | 1                                                                     |
| Bus termination               | 1                                                                     |
| Supply                        | 1                                                                     |
| I/O modules (single width)    | max. 20                                                               |
| I/O modules (dual width)      | max. 10                                                               |
| <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                    | possible                                                              |
| <b>Fieldbus connection</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                                                            |

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

**Technical Data**

|                                                                |                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ambient conditions</b>                                      |                                                                                                                                                                                                                                                  |
| Ambient temperature                                            | -20 ... 40 °C (-4 ... 104 °F) further on request                                                                                                                                                                                                 |
| Storage temperature                                            | -25 ... 70 °C (-13 ... 158 °F)                                                                                                                                                                                                                   |
| Relative humidity                                              | < 75 % (annual mean)<br>< 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<br>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                                                                                                                                                                                                                                               |
| <b>Mechanical specifications</b>                               |                                                                                                                                                                                                                                                  |
| Enclosure cover                                                | hinged door with quarter-turn key locks                                                                                                                                                                                                          |
| Cover seal                                                     | foamed silicone                                                                                                                                                                                                                                  |
| Degree of protection                                           | IP66                                                                                                                                                                                                                                             |
| <b>Cable entry face B</b>                                      |                                                                                                                                                                                                                                                  |
| M16 quantity                                                   | 90                                                                                                                                                                                                                                               |
| M16 series                                                     | Cable Glands, Plastic                                                                                                                                                                                                                            |
| M16 type                                                       | CG.PIDS1.M16.*                                                                                                                                                                                                                                   |
| M16 clamping range                                             | 4 ... 8 mm                                                                                                                                                                                                                                       |
| M16 info                                                       | field signals                                                                                                                                                                                                                                    |
| M20 quantity                                                   | 4                                                                                                                                                                                                                                                |
| M20 series                                                     | Cable Glands, Plastic                                                                                                                                                                                                                            |
| M20 type                                                       | CG.PEDS1.M20.*                                                                                                                                                                                                                                   |
| M20 clamping range                                             | 6 ... 12 mm                                                                                                                                                                                                                                      |
| M20 info                                                       | Fieldbus                                                                                                                                                                                                                                         |
| M25 quantity                                                   | 2                                                                                                                                                                                                                                                |
| M25 series                                                     | Cable Glands, Plastic                                                                                                                                                                                                                            |
| M25 type                                                       | CG.PEDS1.M25.*                                                                                                                                                                                                                                   |
| M25 clamping range                                             | 10 ... 18 mm                                                                                                                                                                                                                                     |
| M25 info                                                       | Power Supply                                                                                                                                                                                                                                     |
| <b>Terminal assembly</b>                                       |                                                                                                                                                                                                                                                  |
| Number of horizontal rails                                     | 1                                                                                                                                                                                                                                                |
| Usable length per horizontal rail                              | 470 mm                                                                                                                                                                                                                                           |
| Terminal type                                                  | max. 90 spring terminal or screw terminal                                                                                                                                                                                                        |
| <b>Material</b>                                                |                                                                                                                                                                                                                                                  |
| Enclosure                                                      | 1.5 mm AISI 316L, (1.4404) stainless steel                                                                                                                                                                                                       |
| Finish                                                         | brushed                                                                                                                                                                                                                                          |
| Cable gland                                                    | Polyamide (PA)                                                                                                                                                                                                                                   |
| Seal                                                           | housing: foamed silicone<br>cable gland: chloroprene                                                                                                                                                                                             |
| Mass                                                           | approx. 32 kg , without modules                                                                                                                                                                                                                  |
| <b>Dimensions</b>                                              |                                                                                                                                                                                                                                                  |
| External dimension (A)                                         | 600 mm                                                                                                                                                                                                                                           |
| External dimension (B)                                         | 600 mm                                                                                                                                                                                                                                           |
| External dimension (C)                                         | 260 mm                                                                                                                                                                                                                                           |
| Mounting                                                       | 4 Mounting bracket for wall mounting included in the scope of delivery                                                                                                                                                                           |
| Grounding                                                      | M8 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<br>Ⓜ 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                                                                                                                   |
| <b>General information</b>                                     |                                                                                                                                                                                                                                                  |

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## Technical Data

|                           |                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordering information      | This device will be delivered completely configured and assembled ready for use. For configuration details please contact Customer Service.                                                                                                                  |
| 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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