









We put things together-

Pepperl+Fuchs products are used throughout the world in applications involving industrial, hazardous and corrosive environments. By engineering a complete solution at our own facility, Pepperl+Fuchs is able to offer its world-class products in a variety of panels and enclosures designed and built according to your specifications.

We are capable of developing and manufacturing a wide range of solutions including:

- Field Junction Box
- Remote I/O enclosure
- Purge & Pressurization systems
- Cabinets

From the initial feasibility concept to start-up and commissioning, Pepperl+Fuchs will provide you with professional service and unmatched performance.

FIELD IUNCTION BOX

Customer- and industry-specific solutions for Fieldconnex

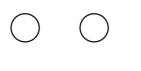


REMOTE I/O ENCLOSURES

Customer- and industry-specific solutions for Remote I/O















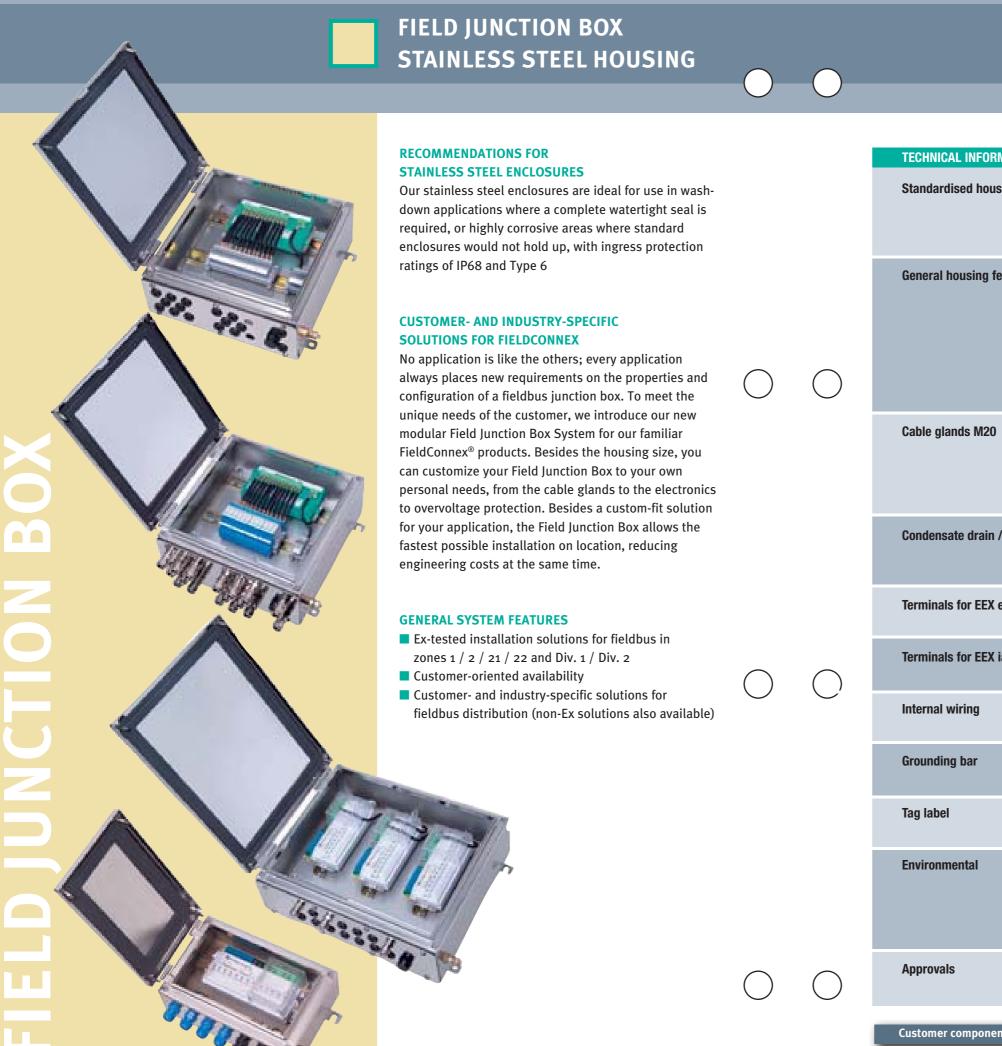
Customer- and industry-specific solutions

deliver solutions.





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TECHNICAL INFORMATIONS		
Standardised housing dimensions	280 x 170 x 100 mm 300 x 200 x 120 mm 380 x 380 x 160 mm 480 x 400 x 160 mm	others available on request
General housing features	SS316I, High-gloss polish Mounting brackets Door hinges M10 grounding screws DIN-rail mounted mounting plate gland plate Il2GD EEx e II available	380 x 380 x160 and larger 380 x 380 x160 and larger
Cable glands M20	Plastic brass nickel plated stainless steel brass nickel plated for armoured cable stainless steel for armoured cable	
Condensate drain / ventilation M20	plastic brass nickel plated stainless steel	
Terminals for EEX e	screw terminals spring terminals	grey grey
Terminals for EEX ia	screw terminal with disconnect spring terminal with disconnect	blue blue
Internal wiring	fieldbus cable type A , orange fieldbus cable type A, blue	EEx e EEx ia
Grounding bar	isolated non isolated	
Tag label	traffolyte stainless steel (SS304)	120 x 30 mm 120 x 30 mm
Environmental	operating temperature storage temperature Relative Humidity % RH (non condensing) IP rating Impact resistance	-40 to +70°C -40 to +80°C 5 to 95% IP 66 to EN 60529 Type 4 X 7 Nm to EN 50014
Approvals	ATEX IEC	in preparation in preparation

Customer components are also available



FIELD JUNCTION BOX POLYESTER (GRP) HOUSING











RECOMMENDATIONS FOR POLYESTER (GRP) ENCLOSURES

For a light-weight solution, the economical choice is our GRP field junction box. This is an ideal solution for most installations, with ingress protection ratings of IP66 and Type 4X.

CUSTOMER- AND INDUSTRY-SPECIFIC SOLUTIONS FOR FIELDCONNEX

No application is like the others; every application always places new requirements on the properties and configuration of a fieldbus junction box. To meet the unique needs of the customer, we introduce our new modular Field Junction Box System for our familiar FieldConnex® products. Besides the housing size, you can customize your Field Junction Box to your own personal needs, from the cable glands to the electronics to overvoltage protection. Besides a custom-fit solution for your application, the Field Junction Box allows the fastest possible installation on location, reducing engineering costs at the same time.

GENERAL SYSTEM FEATURES

- Ex-tested installation solutions for fieldbus in zones 1 / 2 / 21 / 22 and Div. 1 / Div. 2
- Customer-oriented availability
- Customer- and industry-specific solutions for fieldbus distribution (non-Ex solutions also available)



TECHNICAL INFORMATIONS		
Standardised housing dimensions	271 x 271 x 136 mm 544 x 271 x 136 mm 544 x 544 x 136 mm	others available on request
General housing features	Polyester (GRP) Mounting brackets M10 grounding screws DIN-rail mounted earth conduit plate gland plate II 2GD EEx e II available	optional 544 x 271 x136 and larger
Cable glands M20	Plastic brass nickel plated stainless steel brass nickel plated for armoured cable stainless steel for armoured cable	
Condensate drain / ventilation M20	plastic brass nickel plated stainless steel	
Terminals for EEX e	screw terminals spring terminals	grey grey
Terminals for EEX ia	screw terminal with disconnect spring terminal with disconnect	blue blue
Internal wiring	fieldbus cable type A , orange fieldbus cable type A, blue	EEx e EEx ia
Grounding bar	isolated non isolated	
Tag label	traffolyte stainless steel (SS304)	120 x 30 mm 120 x 30 mm
Environmental	operating temperature storage temperature Relative Humidity % RH (non condensing) IP rating Impact resistance	-40 to +70°C -40 to +80°C 5 to 95% IP 66 to EN 60529 Type 4 X 7 Nm to EN 50014
Approvals	ATEX IEC	in preparation in preparation

Customer components are also available

FIELD JUNCTION BOX ALUMINIUM HOUSING





For non-corrosive environments the economical choice is our aluminium field junction box. This is an ideal solution for most installations, with ingress protection ratings of IP67 and Type 4X.



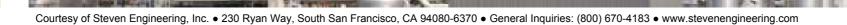
Our wellproven cast aluminium enclosure is the ideal solution for quick and easy site installation. It can be installed close to the field instruments, even in Zone 1, and keeps the wiring and engineering costs to a minimum. Fieldconnex electronics are fitted in the enclosure. There is a choice of cable glands and connectors to suit the demands of the process industries.



- Ex-tested installation solutions for fieldbus in zones 1 / 2 / 21 / 22 and Div. 1 / Div. 2
- Customer-oriented availability
- Customer- and industry-specific solutions for fieldbus distribution (non-Ex solutions also available)

TECHNICAL INFORMATIONS			
Standardised housing dimensions	217 x 114 x 84 mm		
General housing features	aluminium ALSI12 (CU) DIN 1725 (Si 1,2%), anodised Mounting brackets earthing point		
Cable glands M16 / M20	Plastic brass nickel plated stainless steel brass nickel plated for armoured ca	ble	
Plug connection	Plug connection M12 x 1; stainless steel Plug connection M12 x 1; nickel plated brass Plug connection 7/8", stainless steel		
Environmental	operating temperature operating temperature operating temperature operating temperature storage temperature	-30 to +70°C -40 to +70°C -25 to +70°C -40 to +70°C -40 to +85°C	cable glands plastic cable glands metallic M12 x 1 plug connection 7/8" plug connection
	IP rating	IP 66 to EN 60529	Type 4 X
Approvals	Canada CSA USA FM China Nepsi Europe PTB ATEX PTB IECEx	CoC 1592754 CoC 3015728 GYJ 04270 PTB 02 ATEX 2086 IECEx PTB 03.0003	







FIELD JUNCTION BOX CUSTOMIZED APPLICATIONS







- standardised Walsall enclosure (380 x 380 x 150 mm)
- stainless steel 316 L, high polished
- gland plate
- marine approved cable glands for armoured cables
- prewired with single wire in cable duct
- Fieldbarriere



- CCH enclosure (Excell 508x508x200 mm)
- stainless steel 316 L, high polished
- gland plate
- Segmentprotector R2-SP-N12



APPLICATION FOR ZONE 1

- CCH enclosure (ExCell)
- stainless steel 316 L, high polished
- gland plate
- prewired with single wire in cable duct
- Fieldbarriere
- Valve box with 2:1 terminals
- surge trunk
- Terminator

APPLICATION WITH FIELDBARRIERE

- CCH enclosure (ExCell 508x508x200 mm)
- stainless steel 316 L, high polished
- gland plate
- prewired with Fieldbus cable Typ A
- terminals for trunk and spurs
- Fieldbarriere





APPLICATION WITH FIELDBARRIERE

- Polyester (GRP) enclosure
- prewired with single wire and Fieldbus cable Typ A in cable duct
- trunk life disconnect terminals
- terminator with surge arrestor
- Fieldbarriere

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REMOTE I/O ENCLOSURES STAINLESS STEEL HOUSING



Our stainless steel enclosures are ideal for use in washdown applications where a complete watertight seal is required, or highly corrosive areas where standard enclosures would not hold up, with ingress protection ratings of IP68 and Type 6.

CUSTOMER- AND INDUSTRY-SPECIFIC SOLUTIONS FOR REMOTE I/O

No application is like the others; every application always places new requirements on the properties and configuration of a Remote I/O-box. We bear witness to this fact with our enclosure solutions for our familiar Remote I/O-products.

Besides a custom-fit solution for your application, the Remote I/O enclosures allows the fastest possible installation on location, reducing engineering costs at the same time.

GENERAL SYSTEM FEATURES

- Ex-tested installation solutions for fieldbus in zones 1 / 2 / 21 / 22 and Div. 1 / Div. 2
- Customer-oriented availability
- Customer- and industry-specific solutions for fieldbus distribution (non-Ex solutions also available)



1000 x 800 x 300mm 800 x 800 x 300mm 600 x 600 x 210mm

others available on request

General housing features

SS316l, High-gloss polish Mounting brackets Door hinges

DIN-rail mounted mounting plate

M10 grounding screws

gland plate II2GD EEx e II available

Cable glands M16, M20, M25

Plastic brass nickel plated stainless steel

brass nickel plated for armoured cable stainless steel for armoured cable

Condensate drain / ventilation M20

plastic brass nickel plated

stainless steel

spring terminals

screw terminals grey

Terminals for EEX ia

Terminals for EEX e

screw terminal with disconnect spring terminal with disconnect

blue terminals with disconnect blue

Internal wiring in cable duct

black blue

EEx e EEx ia

grey

blue

Grounding bar isolated non isolated

Environmental

operating temperature -20 to +40°C -20 to +55°C operating temperature

operating temperature operating temperature

LB Zone 2 -20 to +70°C LB Zone 2 and EEx i loops

storage temperature

-20 to +80°C

-20 to +60°C

Relative Humidity % RH (non condensing) IP rating

5 to 95%

<75% IP 66 to EN 60529 Typ 4X

FB Zone 1 T6

FB Zone 1 (T4)

Approvals

ATEX ATEX ATEX PTB 97 ATEX 1075 PTB 97 ATEX 1074U PTB 03 ATEX 2042

FB Remote Errichtung in 2 G FB Module Errichtung in 2 G LB Module Errichtung im sicheren Bereich

ATEX PTB 99 ATEX 2186 LB Module Errichtung in 3 GD



Customer components are also available

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REMOTE I/O ENCLOSURES POLYESTER (GRP) HOUSING











RECOMMENDATIONS FOR POLYESTER (GRP) ENCLOSURES

For a light-weight solution, the economical choice is our GRP field junction box. This is an ideal solution for most installations, with ingress protection ratings of IP66 and Type 4X.

CUSTOMER- AND INDUSTRY-SPECIFIC SOLUTIONS FOR REMOTE I/O

No application is like the others; every application always places new requirements on the properties and configuration of a Remote I/O-box. We bear witness to this fact with our enclosure solutions for our familiar Remote I/O-products.

Besides a custom-fit solution for your application, the Remote I/O enclosures allows the fastest possible installation on location, reducing engineering costs at the same time.

GENERAL SYSTEM FEATURES

- Ex-tested installation solutions for fieldbus in zones 1 / 2 / 21 / 22 and Div. 1 / Div. 2
- Customer-oriented availability
- Customer- and industry-specific solutions for fieldbus distribution (non-Ex solutions also available)



Standardised housing dimensionsv

271 x 544 x 210mm 271 x 815 x 210mm 407 x 544 x 210mm 407 x 815 x 210mm 407 x 1088 x 210mm

407 x 1359 x 210mm

544 x 544 x 210mm 544 x 815 x 210mm 544 x 1088 x 210mm 544 x 1359 x 210mm

others available on request

General housing features

Polyester (GRP) Mounting brackets M10 grounding screws DIN-rail mounted

optional

earth conduit plate Il 2GD EEx e Il available

optional

Cable glands M16, M20, M25

Plastic brass nickel plated stainless steel

brass nickel plated for armoured cable stainless steel for armoured cable

Condensate drain /

plastic brass nickel plated

stainless steel

screw terminals

spring terminals

grey grey

Terminals for EEX ia

screw terminal with disconnect spring terminal with disconnect terminals with disconnect

blue blue

Internal wiring in cable duct

black blue

EEx e EEx ia

blue

Grounding bar

isolated non isolated

storage temperature

Environmental

-20 to +40°C operating temperature operating temperature -20 to +55°C operating temperature -20 to +70°C operating temperature

PTB 97 ATEX 1075

LB Zone 2 -20 to +60°C -20 to +80°C

Relative Humidity % RH (non condensing) IP rating

5 to 95% IP 66 to EN 60529 Typ 4X

FB Remote Errichtung in 2 G

FB Zone 1 T6

FB Zone 1 (T4)

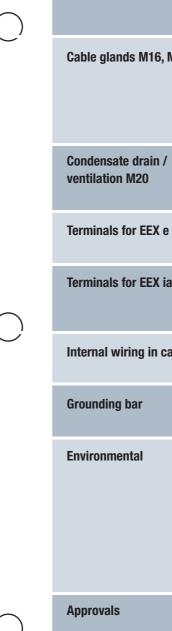
<75%

LB Zone 2 and EEx i loops

ATEX PTB 97 ATEX 1074U **ATEX** PTB 03 ATEX 2042 ATEX PTB 99 ATEX 2186

FB Module Errichtung in 2 G LB Module Errichtung im sicheren Bereich LB Module Errichtung in 3 GD

ATEX



Customer components are also available

PURGED CABINET SOLUTIONS





CUSTOMER- AND INDUSTRY-SPECIFIC SOLUTIONS

Pepperl+Fuchs is the global leader in the design and manufacturing of purge and pressurization systems, as well as in the implementation of purged cabinet solutions. Our purge systems are produced in accordance with ISO 9001 international standards, and are certified to global NFPA, ATEX, FM and UL requirements, for applications ranging from Type X, Y and Z, to Ex [nP] and Ex [p]. This will enable you to operate general purpose equipment within hazardous or corrosive areas in most parts of the world.

Our Pepperl+Fuchs purged cabinet solutions offer the option of UL698 certification to complement those servicing the North American market.

As a manufacturer of purge systems and customized cabinets, Pepperl+Fuchs can offer a complete solution, whatever your needs may be. We can design and build an enclosure based on your specification, and install the necessary purge equipment, taking the guesswork out of your application. Additionally P+F can mount your control equipment and P+F intrinsic safety barriers in these cabinets for a complete solution.

With an offering of multiple enclosure material types and sizes, choosing Pepperl+Fuchs custom cabinet solutions is the right choice for your purged and pressurized cabinet applications.

PURGE SYSTEM FEATURES

- Components mounted on stainless steel panel
- General purpose equipment can be operated in a Div 2/Zone 2 area
- General purpose equipment can be operated in a Div 1/Zone 1 area
- Div 2 rated equipment can be used in a Div 1 area
- Enclosure sizes up to 250 cuft (7.08 m³)
- Optional pressure loss alarm relay on Type Y, Z and Ex[nP] systems
- Filter-regulator with pressure gauge provides clean, protective gas to the enclosure
- LED indication and end-user interface display on Type X, Ex[p] systems
- Certified to NFPA, ISA, and ATEX standard
- EPCU (electronic power control unit) controls enclosure power and monitors system operation
- Fully automatic systems for easy installation and operation

ENCLOSURE FEATURES

- 316 stainless steel, aluminum, glass reinforced plastic enclosures (other materials available upon request)
- Enclosure sizes up to 250 cuft (7.08 m)
- Purge system pre-assembled to enclosure for easy customer installation
- UL698 system certification
- NEMA 4X/ IP66 enclosure rating
- Customer specific solutions available

CLASS	CLASS I APPLICATIONS				
Туре	Div	Group	Equipment	90 Cu Ft (2.54 m³)	250 Cu Ft (7.08 m³)
7	Z 2	A-D	General Purpose	3003-LPS-CI / 3003-WPSA-CI	3004-LPS-CI / 3004-WPSA-CI
Z		C&D	General Purpose	3003-LPS-CI / 3003-WPS-CI	3004-LPS-CI / 3004-WPS-CI
х	1	A-D	General Purpose	6000 Series	6000 Series
v		A-D	Div. 2	3003-LPS-CI / 3003-WPSA-CI	3004-LPS-CI / 3004-WPSA-CI
Υ	1	C&D	Div. 2	3003-LPS-CI / 3003-WPS-CI	3004-LPS-CI / 3004-WPS-CI

Note: Class II systems also available

ZONE APPLICATIONS					
Туре	Div	Group	Equipment	90 Cu Ft (2.54 m³)	250 Cu Ft (7.08 m³)
Ex[nP]	2	IIC	General Purpose	3003-LPS-CI	3004-LPS-CI
		IIB+H2	General Purpose	3003-WPSA-CI	3004-WPSA-CI
Ex[p]	1	IIB+H2	General Purpose	6000 Series	6000 Series

CABINETS



Pepperl+Fuchs supports a wide range of cabinet solutions including interface, marshalling, control room and fieldbus power types. We are able to integrate our full line of products into a cabinet that reduces your commissioning time, and most importantly, reduces your upfront costs. Our intrinsic safety, purge & pressurization, fieldbus, power supply and HART interface products can be combined into a complete project solution to meet the exact requirements of your application.

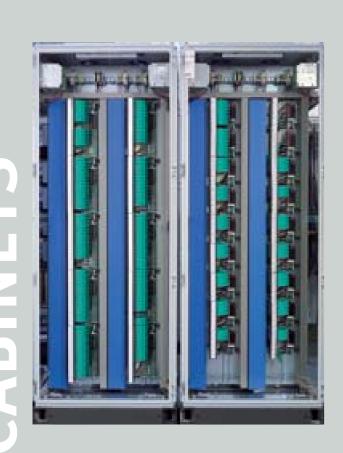
Detailed design

Factory/site acceptance testing (FAT/SAT)

Start-up and commissioning

As a leading manufacturer of process interface equipment, our products are easily integrated into any panel design for maximum uptime and superior performance.

We can integrate any of your products into custom designed cabinet solutions for your applications. Our cabintes are engineered and assembled to your specifications and our design team is available to assist you during any phase of your project.





PROCESS AUTOMATION – PROTECTING YOUR PROCESS



For over a half century, Pepperl+Fuchs has been continually providing new concepts for the world of process automation. Our company sets standards in quality and innovative technology. We develop, produce and distribute electronic interface modules, Human-Machine Interfaces and hazardous location protection equipment on a global scale, meeting the most demanding needs of industry. Resulting from our world-wide presence and our high flexibility in production and customer service, we are able to individually offer complete solutions – wherever and whenever you need us. We are the recognized experts in our technologies – Pepperl+Fuchs has earned a strong reputation by supplying the world's largest process industry companies with the broadest line of proven components for a diverse range of applications.



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