

**Features**

- 2 segments, simplex, individual modules per segment
- High-Power Trunk: Live work on devices in any hazardous area
- Connection to PROFIBUS DP
- Transparent, configuration free
- For PROFIBUS PA
- Optimized for size and quality, low heat dissipation
- Automatically adapts speed on DP - up to 12 Mbit/s

**Function**

The FieldConnex<sup>®</sup> PROFIBUS Compact Power Hub is a modular fieldbus power supply. The power supply consists of 1 Motherboard as mounting base and wiring interface, 2 Power Modules - 1 per segment, and 1 gateway module for connection to PROFIBUS DP.

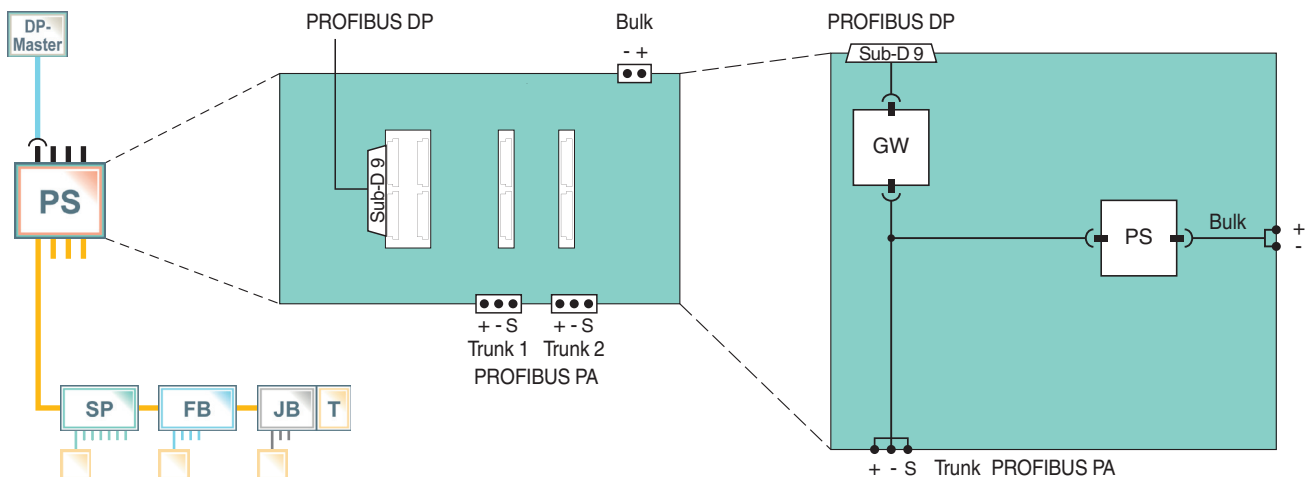
Communication is transparent between DP and PA: The gateway Segment Coupler makes each PA device appear as if it was connected to DP. This includes cyclic/acyclic data exchange and transmission speed. Segment design is clear and easy to understand without subnetworks. The PROFIBUS Power Hub Gateway Module itself is configuration-free – all reducing engineering work.

Availability and a long service life are achieved through: only 1 passive impedance filter per segment, optimized design for low-power dissipation, high-availability fieldbus termination, and plug-in connectors with retaining screws.

**Assembly**



**Connection**



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

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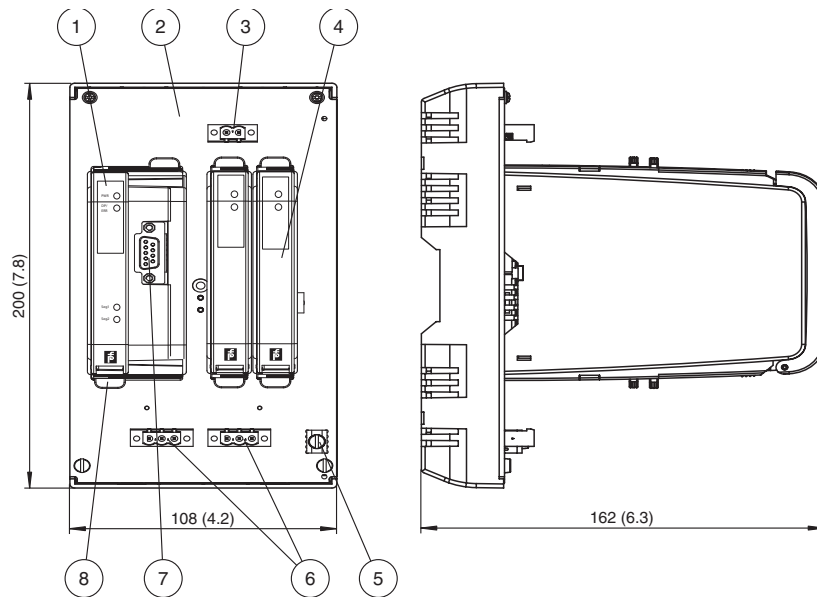
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<b>General specifications</b>		
Design / Mounting		Motherboard based
<b>Supply</b>		
Rated voltage	$U_n$	19.2 ... 35 V DC
Rated current	$I_n$	1.46 ... 0.77 A
Power loss		typ. 6.7 W
<b>Fieldbus interface</b>		
Number of segments		
Simplex		2
Rated voltage	$U_N$	25 ... 28 V
Rated current	$I_N$	360 ... 10 mA
Short-circuit current		typ. 400 mA
<b>PROFIBUS DP</b>		
Connection		9-pin Sub-D socket
Protocol		PROFIBUS DP/DP V1
Terminating resistor		100 $\Omega$ integrated
<b>Indicators/operating means</b>		
LED ERR		red flashing: overload error at output
LED Seg 1...2		red 2 Hz flashing: PA error, red and LED DP/ERR red: MAU error
LED PWR		Power LED: green if $U_{out} > 25$ V
LED DP/ERR		red 2 Hz flashing: DP error ; red: Hardware error
<b>Electrical isolation</b>		
CH/PROFIBUS DP		functional insulation acc. to IEC 62103, rated insulation voltage 50 $V_{eff}$
PROFIBUS DP/Supply		functional insulation acc. to IEC 62103, rated insulation voltage 50 $V_{eff}$
CH/CH		functional insulation acc. to IEC 62103, rated insulation voltage 50 $V_{eff}$
All circuits/FE		functional insulation acc. to IEC 62103, rated insulation voltage 50 $V_{eff}$
Fieldbus segment/Supply		functional insulation acc. to IEC 62103, rated insulation voltage 50 $V_{eff}$
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2006
<b>Standard conformity</b>		
Electrical isolation		IEC 62103
Electromagnetic compatibility		NE 21
Degree of protection		IEC 60529
Fieldbus standard		IEC 61158-2
Shock resistance		EN 60068-2-27
Vibration resistance		EN 60068-2-6
<b>Ambient conditions</b>		
Ambient temperature		-40 ... 60 °C (-40 ... 140 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		< 95 % non-condensing
Shock resistance		15 g 11 ms
Vibration resistance		1 g , 10 ... 150 Hz
Corrosion resistance		acc. to ISA-S71.04-1985, severity level G3
<b>Mechanical specifications</b>		
Housing material		Polycarbonate
Housing width		see dimensions
Housing height		see dimensions
Housing depth		see dimensions
Degree of protection		IP20
Mass		approx. 0.9 kg
Mounting		DIN rail, system M36
<b>Certificates and approvals</b>		
Marine approval		DNV A-14038

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**Dimensions**



All dimensions in millimeters and inches (values in brackets) and without tolerance indication.

**Description:**

- 1 PROFIBUS DP/PA Gateway HD2-GTB-2PA
- 2 Motherboard MBCB-FB-GT
- 3 Power supply connection
- 4 Power supply module HD2-FBPS-1.25.360
- 5 Ground connection clamp
- 6 PA-Trunk connection
- 7 PROFIBUS DP connection
- 8 Quick-Lok bar

**Power module**

HD2-FBPS-1.25.360			
<b>Power Output</b>			
Voltage (V)		25 ... 28	
Current (mA)		360	
Limit U <sub>0</sub> (V)		-	
Device in ...	Type of Protection		Required Installation Components
Zone 0/Div. 1	Intrinsically safe Ex ia	■	FieldBarrier
Zone 1/Div. 1	Intrinsically safe Ex ia	■	FieldBarrier
Zone 1/Div. 1	Flameproof Ex d	■	Segment Protector R-SP-E12 or any Segment Protector installed in Zone 2
Safe Area	No specific type of protection	■	Segment Protector recommended

**PROFIBUS Power Hub Gateway Module**

Type code	Description
HD2-GTB-2PA	PROFIBUS DP/PA Gateway Module

**Accessories**

Type code	Description
DM-AM-KIT	Advanced Diagnostic Module, mobile version

**Installation note**

see manual

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