

**Features**

- Output: 21 ... 23 V/500 mA
- Voltage limitation for Entity ic and Ex nL
- With galvanic isolation
- Installation in Zone 2/Class I, Div. 2
- For FOUNDATION Fieldbus H1 and PROFIBUS PA
- Highest efficiency, lowest heat dissipation for highest packing density
- Hot swappable in redundant configuration
- Module exchange without tools during operation

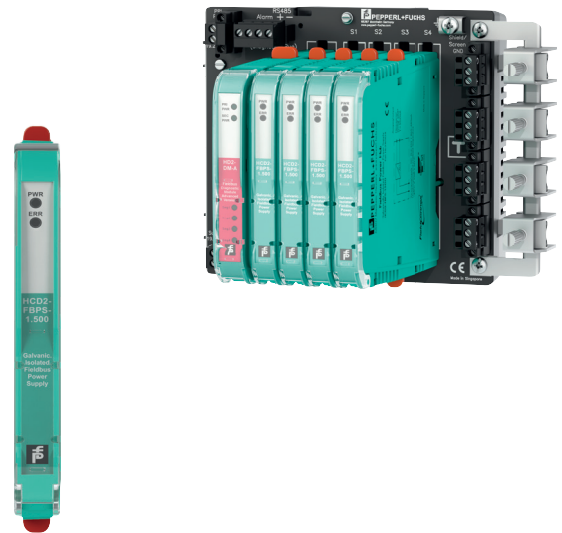
**Function**

This Power Supply Module is a system component for the FieldConnex® Power Hub and can be plugged into the motherboard. It adapts current and voltage for the supply of fieldbus segments and field devices.

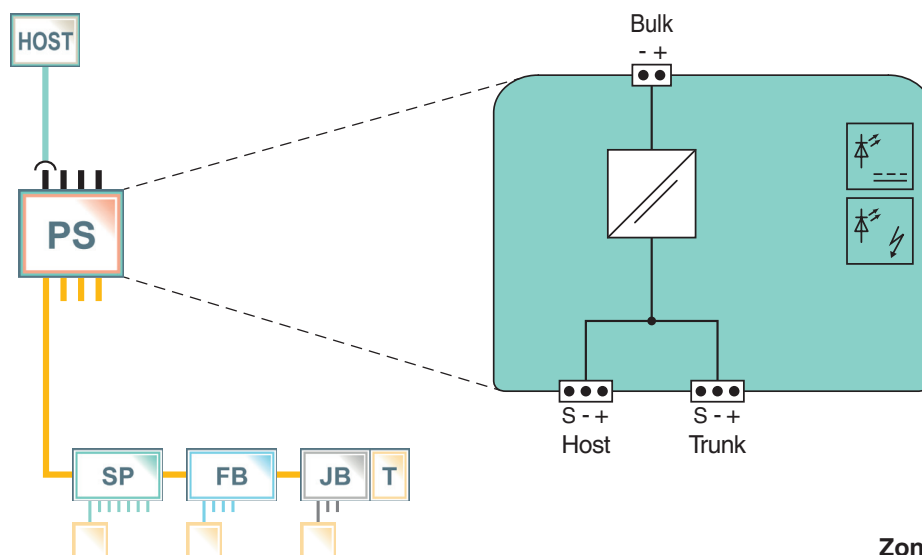
The combination of this power supply, selected motherboards and R2 Segment Protector provide outputs certified for explosion protection Entity Ex ic and Entity Ex nL.

Reliability of communication is enhanced through galvanic isolation between segment and bulk power supply. Two LEDs indicate power and status. In redundant configuration two modules are connected in parallel via simple circuits ensuring seamless operation.

**Assembly**



**Connection**



Zone 2/Div. 2

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

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<b>General specifications</b>		
Design / Mounting		Motherboard based
<b>Supply</b>		
Rated voltage	$U_n$	19.2 ... 35 V DC
Power dissipation		typ. 1.2 W
<b>Fieldbus interface</b>		
Rated voltage	$U_N$	21 ... 23 V
Rated current	$I_N$	500 ... 10 mA
Short-circuit current		550 mA
Terminating resistor		motherboard specific
<b>Indicators/operating means</b>		
LED ERR		red flashing: short-circuit or undervoltage at output
LED PWR		green if $U_{out} > 21$ V
<b>Electrical isolation</b>		
Fieldbus segment/Supply		functional insulation acc. to IEC 62103, rated insulation voltage 250 V AC
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013
<b>Standard conformity</b>		
Electromagnetic compatibility		NE 21:2011
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 ... 70 °C (-40 ... 158 °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
Pollution degree		max. 2, according to IEC 60664
Corrosion resistance		acc. to ISA-S71.04-1985, severity level G3
<b>Mechanical specifications</b>		
Connection type		motherboard specific
Core cross-section		motherboard specific
Housing material		Polycarbonate
Housing width		12.5 mm
Housing height		106 mm
Housing depth		128 mm
Degree of protection		IP20
Mass		approx. 150 g
Mounting		motherboard mounting
<b>Data for application in connection with Ex-areas</b>		
Outputs		
Voltage	$U_o$	24 V
Statement of conformity		TÜV 10 ATEX 555761X
Group, category, type of protection, temperature class		 II 3G Ex nA IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012 , EN 60079-11:2012 , EN 60079-15:2010
<b>International approvals</b>		
FM approval		CoC 3024816, CoC 3024816C
Approved for		Class I, Division 2, Groups A, B, C, D, T4 / Class I, Zone 2, AEx/Ex nA IIC T4
IECEX approval		IECEX TUN 13.0037X
Approved for		Ex nA IIC T4 Gc
<b>Certificates and approvals</b>		
Marine approval		DNV A-14038
<b>General information</b>		
Supplementary information		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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