

Features

- Installation in Zone 0, 20
- Installation in Class I, II, Division 1
- Installation in Class III
- Installation in Class I, Division 2
- Ex i circuits for Ex i field devices
- Cast aluminum housing
- Loop powered
- Direct mounting on HART or 4 mA ... 20 mA field device
- Encapsulated antenna
- Up to 8 field devices in multidrop

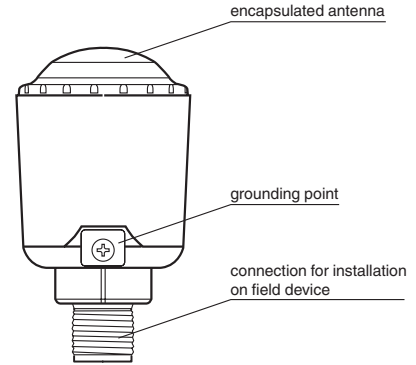
Function

The device upgrades a conventional HART or 4 ... 20 mA field device with a WirelessHART interface.

The supply is ensured via loop power. Due to its intrinsically safe circuits, the adapter can be mounted on an intrinsically safe field device or anywhere in the 4 ... 20 mA loop. Up to 8 HART field devices can be connected to each other in multidrop mode. The encapsulated antenna allows for use in harsh environments.

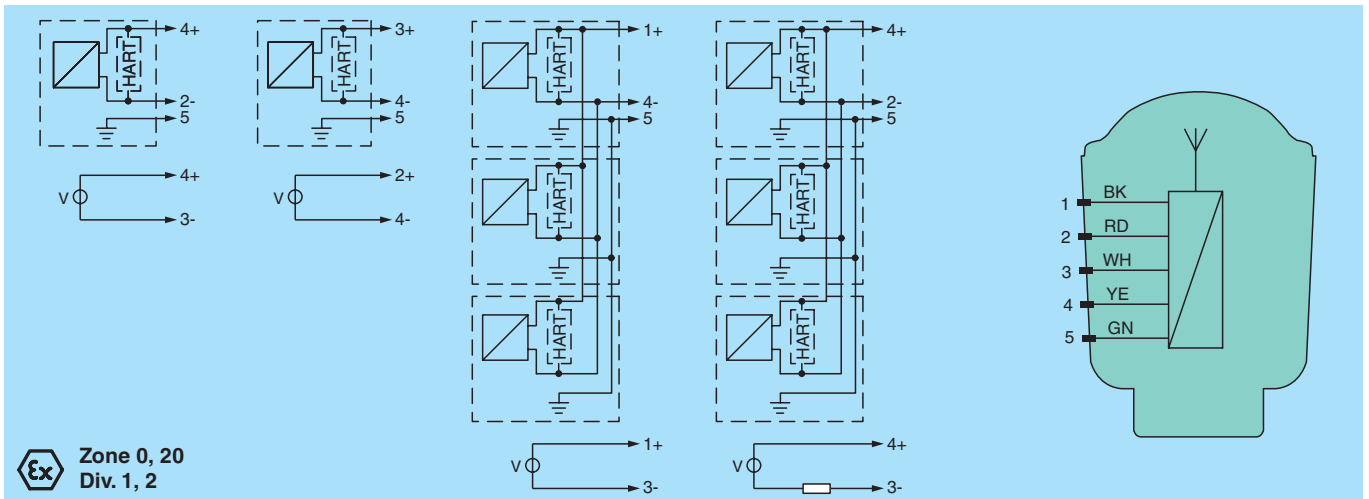
The device can be programmed with a configuration tool easily (DTM or DD).

Assembly



WirelessHART

Connection



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

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Supply		
Rated voltage	U_r	7 ... 30 V DC
Rated current	I_r	< 1 mA , max. 25 mA
Electrical specifications		
Output rated operating current		3.2 ... 25 mA
Supply		loop power for field devices voltage: 1 ... 2.5 V DC, adjustable in steps of 0.5 V
Input		
Connection		- 5 wires, 600 mm long, exiting from male thread NPT1/2 - 1 external grounding point
HART communication		
Protocol		HART 7.1, backward compatible
Number of devices		up to 8 HART field devices (depending on installation)
Output		
Interface		internal antenna
Communication		WirelessHART specifications - physical layer: IEEE 802.15.4.2006 - frequency band: 2.4 GHz (ISM band, licence free) - maximum transmit power: +10 dBm - outdoor transmission range: 235 m - communication standard: WirelessHART
Directive conformity		
Radio and telecommunication terminal equipment		The usage of 2.4 GHz equipment is bound to local restrictions. Ensure that restrictions allow usage of this product before commissioning.
Directive 2014/53/EU		EN 300 328 V2.1.1:2016 EN 301 489-1 V2.2.0:2017 EN 301 489-17 V3.2.0:2017
FCC CFR47 Part 15 B and C		ANSI C63.4-2003 , FCC ID: X89-WA1101
Conformity		
Degree of protection		IEC 60529:2013
Ambient conditions		
Ambient temperature		temperature class T5: -40 ... 85 °C (-40 ... 185 °F) temperature class T6: -40 ... 75 °C (-40 ... 167 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		max. 100 %
Mechanical specifications		
Degree of protection		IP67
Material		Aluminum alloy with polyurethane enamel paint
Mass		460 g
Dimensions		60.8 x 60.8 x 100 mm (l x w x h)
Data for application in connection with hazardous areas		
EU-Type Examination Certificate		FM 17 ATEX 0046 X
Marking		⊕ II 1G Ex ia IIC T6...T5 Ga ⊕ II 1D Ex ia IIIC T95°C Da
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012
International approvals		
FM approval		FM 17 NUS 0010 FM 17 US 0191 X
Control drawing		116-0425 (cFMus)
Approved for		IS Class I, II, III, Division 1, Groups A-G Class I, Zone 0, AEx ia IIC T6...T5 Ga Zone 20, AEx ia IIIC T95°C Da
CSA approval		FM 17 NCA 0004 FM 17 CA 0102 X
Control drawing		116-0425 (cFMus)
Approved for		IS Class I, II, III, Division 1, Groups A-G Ex ia IIC T6...T5 Ga Ex ia IIIC T95°C Da associated apparatus [Ex ia]
IECEX approval		
IECEX certificate		IECEX FMG 17.0020X
IECEX marking		Ex ia IIC T6...T5 Ga , Ex ia IIIC T95°C Da
Standards		IEC 60079-0:2011 , IEC 60079-1:2014 , IEC 60079-11:2011 , IEC 60079-31:2013
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .

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