Features

- 1-channel
- WirelessHART Adapter
- · Battery operated
- Also supplies field device
- Input 2-wire HART transmitters and 2-wire HART current sources
- Output WirelessHART wireless interface
- Direct mounting on HART or 4 mA ... 20 mA field device
- Rotatable antenna

Function

The device upgrades a conventional HART or 4 mA ... 20 mA field device with a WirelessHART interface. It is mounted either directly to the cable gland entry or separated from the field device.

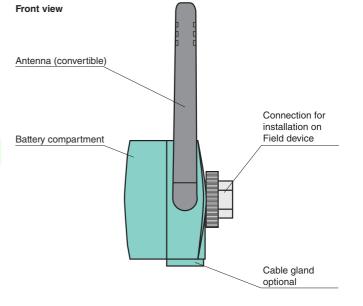
The device contains a battery pack which also powers the field device. Depending on the parameterization, battery lifetimes up to 5 years are possible. This allows autonomous measurements. The rotatable antenna can be brought in the optimal position, regardless of the mounting orientation of the field device.

The unit is easily programmed with a configuration tool (DTM or DD).

For additional information, refer to the manual and www.pepperl-fuchs.com.

Application

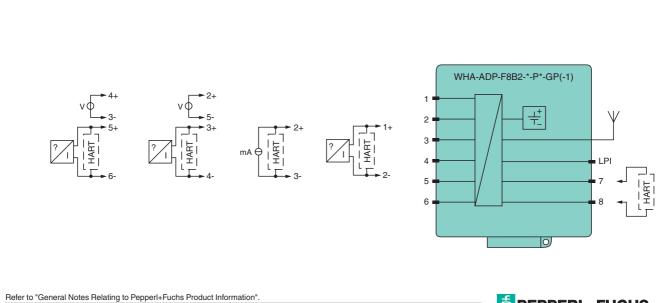
The batteries and the mounting accessories are not included with delivery. Please order separately.



CE



Connection



Pepperl+Fuchs Group www.pepperl-fuchs.com USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com



1

Supply	
Rated voltage U _r	7.2 V DC , battery operated
Electrical specifications	
Output rated operating current	4 20 mA
Supply	loop power for field devices
	voltage 8 23 V DC, adjustable in steps of 0.1 V
Interface	
Programming interface	interface LPI
Input	
Suitable field devices	usable for: - one point-to-point connection with a HART field device, or - one point-to-point connection with a 4 20 mA field device, or - up to four externally powered HART field devices operating in multidrop mode
Connection	terminals 1, 2, 3, 4, 5, 6 multiple wirings available , depending on operating mode
Current	4 20 mA
HART communication	
Protocol	HART 7.3, backward compatible
Number of devices	- one passive 4 20 mA/HART field device
	- up to 4 HART field devices in multidrop mode 1200 Bit/s
Transfer rate	
Parameters	primary/secondary master, preambles, retries and short address scan ranges
Output	
Interface	omnidirectional dipole antenna, adjustable in vertical plane
Output variables	 PV: loop current SV, TV, QV:configurable according to user requirement - adapter: temperature, battery voltage, energy consumed and estimated battery life-time - 4 20 mA device: scaled or linearized process value - HART device: up to four process variables
Communication	 WirelessHART specification IEC 62591 Physical layer: IEEE 802.15.4.2006 Frequency range: 2.4 GHz (ISM band, license-free) Transfer rate: 250 kBit/s Maximum transmission power: +10 dBm (EIRP) Range: 250 m outdoors, 50 m indoors (under reference conditions) Communications standard: WirelessHART
Transfer characteristics	
Accuracy	current input: 0.125 % of measuring range
Influence of ambient temperature	current input: 5 μA/K
Indicators/settings	
Parameter assignment	 wireless transmit power: configurable to 0 dBm or 10 dBm (EIRP) device variables mapping publishing of up to ten burst messages in a wireless network, period and trigger mode selectable notification of up to five events from adapter and/or connected device(s) in a wireless network scaling and linearization of 4 20 mA signal of connected analog device tuning of supply parameters for the connected device locking/unlocking of device parameterization
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013, CLASS A
	The usage of 2.4 GHz equipment is bound to local restrictions. Ensure that restrictions allow usage of this
	product before commisioning.
	product before commisioning.
equipment Directive 2014/53/EU	product before commisioning. EN 300328 V2.1.1:2017, EN 301489-17 V3.1.1:2017, EN 301489-1 V2.1.1:2017
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C	product before commisioning.
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs	product before commisioning. EN 300328 V2.1.1:2017, EN 301489-17 V3.1.1:2017, EN 301489-1 V2.1.1:2017 ANSI C63.4-2003
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS)	product before commisioning. EN 300328 V2.1.1:2017, EN 301489-17 V3.1.1:2017, EN 301489-1 V2.1.1:2017
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection Shock resistance	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529 EN 60068-2-27
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection Shock resistance	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection Shock resistance	product before commisioning. EN 300328 V2.1.1:2017, EN 301489-17 V3.1.1:2017, EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529 EN 60068-2-27 EN 60068-2-64
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection Shock resistance Vibration resistance Ambient conditions	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529 EN 60068-2-27 EN 60068-2-64 -40 80 °C (-40 176 °F)
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection Shock resistance Vibration resistance Ambient conditions	product before commisioning. EN 300328 V2.1.1:2017, EN 301489-17 V3.1.1:2017, EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529 EN 60068-2-27 EN 60068-2-64
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection Shock resistance Vibration resistance Ambient conditions Ambient temperature	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529 EN 60068-2-27 EN 60068-2-64 -40 80 °C (-40 176 °F)
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection Shock resistance Vibration resistance Vibration resistance Ambient conditions Ambient temperature Storage temperature Relative humidity	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529 EN 60068-2-27 EN 60068-2-64 -40 80 °C (-40 176 °F) -40 85 °C (-40 185 °F)
equipment Directive 2014/53/EU FCC CFR47 Part 15 B and C RoHs Directive 2011/65/EU (RoHS) Conformity Degree of protection Shock resistance Vibration resistance Ambient conditions Ambient temperature Storage temperature Relative humidity Vibration resistance	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529 EN 60068-2-27 EN 60068-2-64 -40 80 °C (-40 176 °F) -40 85 °C (-40 185 °F) max. 90 % , noncondensing
FCC CFR47 Part 15 B and C RoHs	product before commisioning. EN 300328 V2.1.1:2017 , EN 301489-17 V3.1.1:2017 , EN 301489-1 V2.1.1:2017 ANSI C63.4-2003 EN 50581:2012 IEC 60529 EN 60068-2-27 EN 60068-2-64 -40 80 °C (-40 176 °F) -40 85 °C (-40 176 °F) max. 90 % , noncondensing 20 2000 Hz, 0,01 g ² /Hz

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com



2

Degree of protection	IP66
Material	plastic
Mass	approx. 750 g
Dimensions	92 x 89.5 x 92.8 mm (without cable glands and antenna)
Mounting	mounting on field device , panel or pole mounting
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.
Accessories	
Designation	battery W-BAT-B2-Li mandatory for use in connection with hazardous areas (order separately) mounting set W-ACC-F8MK threads (NPT 1/2", NPT 3/4", G 1/2, M20)

Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com

