

WirelessHART adapter - RAD-WHA-1/2NPT - 2900100

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Adapter that can be used to interface HART field devices into a WirelessHART network.

Product Description

Adapter that can be used to interface HART field devices into a WirelessHART network.


Why buy this product

- ✓ Up to 4 HART devices can be connected to one adapter
- ✓ Connected HART devices can transmit data via a WirelessHART network
- ✓ Removable antenna for connecting a coaxial cable and a high-gain antenna
- ✓ 1/2" NPT connection for distributed or direct device connection
- ✓ A standard signal with 4 ... 20 mA can be connected in order to integrate non-HART devices into a WirelessHART network

RoHS

WirelessHART

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 583930
GTIN	4046356583930
Weight per Piece (excluding packing)	1,080.000 g
Custom tariff number	85177000
Country of origin	Germany

Technical data

Dimensions

Width	87.2 mm
Height	161 mm
Depth	65.3 mm

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Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP65

Wireless path

Interface description	WirelessHART
Note	Test loops connect HART programming tool
Direction	Bi-directional
Frequency range	2.4 GHz ... 2.4835 GHz
Transmit capacity, minimum	0 dBm
Transmit capacity, maximum	10 dBm
Channel distance	5 MHz
Number of channel groups	15
Antenna connection method	N (female)

Supply

Supply voltage	24 V DC
Supply voltage range	11 V DC ... 30 V DC
Max. current consumption	95 mA

General

Mounting position	any
Assembly instructions	1/2-in. NPT
Housing material	Aluminum, die-cast, corrosion resistant, powder-coated

Connection data

Connection method	Flying leads, 20 AWG
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Standards and Regulations

Electromagnetic compatibility	FCC Part 15.247
Interface description	WirelessHART
Channel distance	5 MHz
ATEX	# II 3G Ex nA [nL] IIC T4 Gc, Ex nA [ic] IIC T4 Gc, Sira 11ATEX4217X
IECEX	Ex nA [nL] IIC T4 Gc, Ex nA [ic] IIC T4 Gc, SIR 11.0098X
CSA, USA/Canada	# Canada: Class I, Division 2, Groups A,B,C,D; Class I, Zone 2, AEx nA [nC] IIC T4 Gc

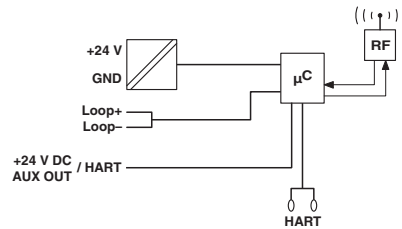
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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Drawings

Block diagram



Classifications

eCl@ss

eCl@ss 4.0	27230207
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	19030503
eCl@ss 6.0	27069204
eCl@ss 7.0	19070102
eCl@ss 8.0	19170202
eCl@ss 9.0	19179290

ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC000817
ETIM 5.0	EC000817
ETIM 6.0	EC000310

UNSPSC

UNSPSC 6.01	43171611
UNSPSC 7.0901	43221706
UNSPSC 11	43171611
UNSPSC 12.01	43221706
UNSPSC 13.2	43221706

Accessories

Accessories

Antenna

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Accessories

Antenna - RAD-ISM-2400-ANT-OMNI-6-0 - 2885919

Omnidirectional antenna, 2.4 GHz, 6 dBi, linear vertical, h/v 360°/30° opening angle, N (female), IP67, incl. mounting bracket and mast clips for 45 mm ... 100 mm diameter, stainless steel, ATEX & IECEx approval, seawater-resistant



Antenna - RAD-ISM-2400-ANT-PAN- 8-0 - 2867610

Panel antenna, degree of protection IP55, 8 dBi gain, linear vertical, SMA (female), impedance 50 ohms, apex angle h/v 75°/70°



Assembly element

Mounting kit - RAD-WHA-MKT - 2904553

Mounting kit for WirelessHART adaptor (RAD-WHA-1/2NPT). Allows attachment to a pipe 38 to 89 mm diameter (1.5 to 3.5-inch diameter) or a flat surface, such as a panel.



Mounting kit - RAD-WHA-MKT - 2904553

Mounting kit for WirelessHART adaptor (RAD-WHA-1/2NPT). Allows attachment to a pipe 38 to 89 mm diameter (1.5 to 3.5-inch diameter) or a flat surface, such as a panel.



Coaxial cable

Antenna cable - RAD-CAB-EF393- 3M - 2867649

Antenna cable, 3 m in length, N (male) -> N (male), 50 Ω impedance



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Accessories

Gateways/Proxies

WirelessHART gateway - RAD-WHG/WLAN-XD - 2900178



Gateway between WirelessHART field devices and 802.11b/g

Junction box connector

Socket terminal block - JBC 2,5/3 - 3240164



3-pos. socket terminal block with spring-cage connection, for toolless wiring with push-in connection method, for one and multi-strand conductors with a cross section of 0.5 to 2.5 mm², insulation housing transparent.

NPT adapter

Adapter - 1/2NPT(M)-1/2NPT(M)-EX - 2902313



1/2-inch NPT male to 1/2-inch NPT male adapter, IP68, rated for hazardous locations

Adapter - 1/2NPT(M)-M20(M)-EX - 2902339



1/2-inch NPT male to M20 male adapter, IP68, rated for hazardous locations

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Accessories

Adapter - 1/2NPT(M)-1/2NPT(F)-90DEG-EX - 2902346



1/2-inch NPT male to 1/2-inch NPT female adapter, 90°, IP64, rated for hazardous locations

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