

RAD-WHG/WLAN-XD - WirelessHART gateway



2900178

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Gateway between WirelessHART field devices and 802.11b/g



Product description

WirelessHART gateway to 802.11b/g Ethernet

Your advantages

- WirelessHART gateway supports 250 WirelessHART devices
- WirelessHART uses "channel hopping" for interference tolerance
- 802.11b/g client can be used as a WirelessHART backhaul connection with 802.11i (WPA2) 128-bit AES encryption
- Completely meshed routing (self-organizing and self-healing network) with WirelessHART
- Easy programming and diagnostics using an integrated web server or HART programming device

Commercial data

Item number	2900178
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	091
Product key	DNC624
Catalog page	Page 384 (C-6-2019)
GTIN	4046356543569
Weight per piece (including packing)	326,6 g
Weight per piece (excluding packing)	310,3 g
Customs tariff number	85176200
Country of origin	US

Technical data

Product properties

Product type	Gateways/Proxies
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Electrical properties

Supply

Supply voltage	24 V DC
Supply voltage range	9 V DC ... 30 V DC
Typical current consumption	125 mA (at 24 V DC)
Max. current consumption	300 mA (at 24 V DC)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

Interfaces

Serial

Serial transmission speed	10/100 Mbps
Connection method	RJ45

Wireless

Interface description	WLAN as per IEEE 802.11 b/g
Direction	Bi-directional
Frequency	2.4 GHz
Frequency range	2.4 GHz ... 2.472 GHz
Channel distance	5 MHz
Number of channel groups	13
Transmit capacity, minimum	0 dBm
Transmit capacity, maximum	20 dBm
Antenna connection method	RSMA (female)

Wireless

Interface description	WirelessHART
Note	Test loops connect HART programming tool
Frequency	2.4 GHz
Frequency range	2.4 GHz ... 2.4835 GHz
Channel distance	5 MHz
Number of channel groups	15

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Transmit capacity, minimum	0 dBm
Transmit capacity, maximum	10 dBm
Minimum receiver sensitivity	-90 dBm
Antenna	External
Antenna connection method	RSMA (female)

Functions

Country support	Austria
	Belgium
	Bulgaria
	Cyprus (rep.)
	Czech Republic
	Denmark
	Estonia
	Finland
	France
	Germany
	Greece
	Hungary
	Iceland
	Ireland
	Latvia
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Portugal
	Romania
Slovenia	
Slovakia	
Sweden	
Great Britain	
Switzerland	
Liechtenstein	
USA	
Canada	

Dimensions

Width	45 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color	green
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Housing material	Polyamide PA non-reinforced
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 90 %

Approvals

Conformity/Approvals

Conformance	CE-compliant
	FCC Directive, Part 15.247
	CE-compliant (RED Directive 2014/53/EU)
	ATEX 2014/34/EU
ATEX	Ex nA IIC T4 Gc; Sira 10ATEX4252X
IECEX	Ex nA IIC T4; IECEX CSA 10.0008X
CSA, USA	Class I, Zone 2, Group IIC; AEx nA IIC T4
CSA, Canada	Class I, Div. 2 Groups A,B,C,D Ex nA IIC T4

EMC data

Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
	Conformance with EMC Directive 2014/30/EU

Mounting

Assembly instructions	NS 35 in acc. with EN 60715
Mounting position	any

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