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

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Gateway between WirelessHART field devices and 802.11b/g

Product Description

WirelessHART gateway to 802.11b/g Ethernet

Why buy this product

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



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 543569

Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Wireless path

Interface description	WLAN as per IEEE 802.11 b/g
Direction	Bi-directional

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Technical data

Wireless path

Frequency range	2.4 GHz ... 2.472 GHz
Transmit capacity, minimum	0 dBm
Transmit capacity, maximum	20 dBm
Channel distance	5 MHz
Number of channel groups	13
Connection method	female
Antenna connection method	RSMA
Interface description	WirelessHART
Note	Test loops connect HART programming tool
Antenna	External
Antenna connection method	RSMA
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
Connection method	female

Serial interface

Connection method	RJ45
Serial transmission speed	10/100 Mbps

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)
Nominal power consumption	5.1 W (typical)

General

Mounting position	any
Assembly instructions	NS 35 in acc. with EN 60715
Housing material	Polyamide PA non-reinforced
Conformance	CE-compliant
	FCC Directive, Part 15.247
ATEX	Ex nA IIC T4 Gc; Sira 10ATEX4252X
IECEX	Ex nA IIC T4; IECEX CSA 10.0008X

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²

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Technical data

Connection data

Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

Standards and Regulations

Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
Interface description	WLAN as per IEEE 802.11 b/g
Channel distance	5 MHz
Interface description	WirelessHART
Channel distance	5 MHz
Low Voltage Directive	Conformance with Low Voltage Directive 2006/95/EC
Conformance	CE-compliant
	FCC Directive, Part 15.247
ATEX	Ex nA IIC T4 Gc; Sira 10ATEX4252X
IECEX	Ex nA IIC T4; IECEX CSA 10.0008X

Classifications

eCl@ss

eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	19179290

ETIM

ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

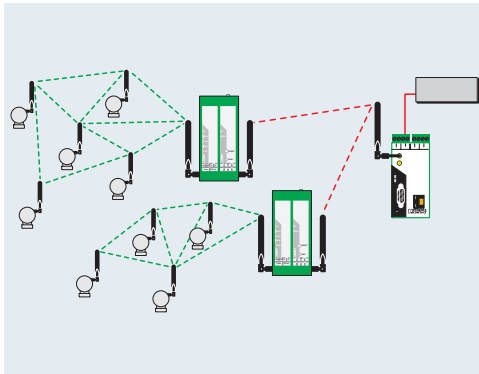
UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	43223108
UNSPSC 11	39121008
UNSPSC 12.01	43223108
UNSPSC 13.2	43223108

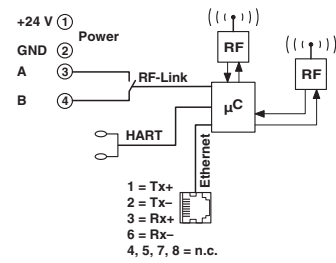
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Drawings

Application drawing



Block diagram



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