

RAD-WHG/WLAN-XD

Order No.: 2900178



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Gateway between WirelessHART field devices and 802.11b/g



WirelessHART

Commercial data

Note	Made-to-order
EAN	4046356543569
Pack	1 pcs.
Customs tariff	85176200
country of origin	US
Catalog page information	Page 656 (IF-2011)

Product notes

WEEE/RoHS-compliant since:
16-04-2010



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Product description

WirelessHART gateway to 802.11b/g Ethernet

Technical data

Wireless path

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

Width	45 mm
Height	99 mm
Depth	114.5 mm
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20
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
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Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

Certificates

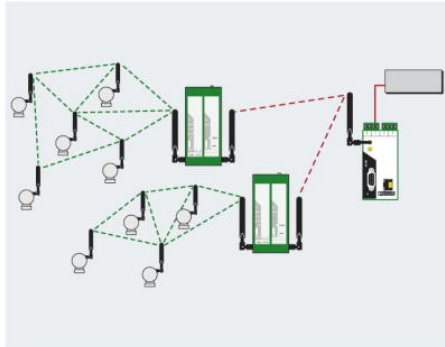
Certification Ex: CSA-EX, CSAus-EX

Accessories

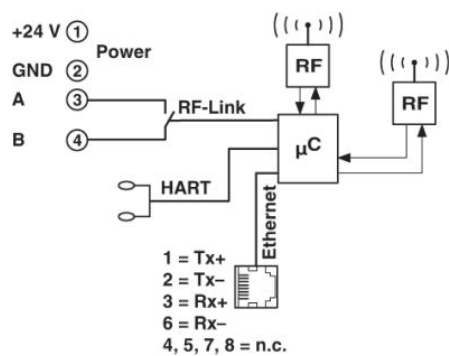
Item	Designation	Description
Antennas		
2885919	RAD-ISM-2400-ANT-OMNI-6-0	Omnidirectional antenna, 2.4 GHz, 6 dBi, linear vertical, N (female), IP55, 50 Ohm impedance
2867885	RAD-ISM-2400-ANT-PAR-19-0	Parabolic antenna, IP65 degree of protection, 19 dBi gain, linear vertical, N (female) connection, impedance 50 Ω, apex angle h/v 17°/11°
2885867	RAD-ISM-2400-ANT-VAN- 3-0-SMA	Omnidirectional antenna with protection against vandalism, 2.4 GHz, 3 dBi gain, IP55 protection, 1.5 m cable length, SMA (male) connection, opening angle h/v 360°/85°. Appropriate mounting material is available for wall mounting.

Drawings

Application drawing



Block diagram



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