



WIRELESS GATEWAY SR5010 - DH2



PRODUCT HIGHLIGHTS

- Industrial Wireless Gateway Functionality
- Compact, Low-Profile Design with Low Power Consumption
- Serial Interfaces
 - RS232 or RS485 (Software Selectable, Modbus Master/Slave Function)
 - RS232 Configuration
- Peer-to-Peer Communication / Up to 64km Wireless Range
- Full Repeater Capabilities
- License-Free 900 MHz Band, Secure Data Transmission (2.4 GHz Optional)
- Scalable Solution
- Easy-to-Install, Configure and Use
- Wirelessly Connects to WIO® Class I; Division 1 Transmitters
- User-Friendly BreeZ® Configuration Software

WIRELESS SENSOR NETWORK

- Reliable, Robust Wireless Performance
- Eliminates Costly Conduits and Wiring
- Monitor/Control Process Conditions 24/7
- License-Free ISM Band, FSK & FHSS Technologies
- Reduces Labour, Installation and Maintenance Costs
- Meet Regulatory Requirements
- Industrial Strength Performance & Durability

Wireless Gateway	915-928 MHz ISM License-Free Band	Peer-to-Peer Communication
Easy-to-Configure BreeZ® Software	RS232/RS485 Serial Interface	Modbus Master/Slave Functions
Full Repeater Capabilities	Scalable Solution	Class I; Division 2

APPLICATIONS

- Oil & Gas, Pipeline, Petro-Chem, Water/Wastewater, Utilities, Irrigation Systems, Mining, SCADA Systems, PLC/RTU Extensions, Pump Control, Tank Level, 3A Sanitary, Pharmaceuticals, Biotechnology, and Much More



TECHNICAL SPECIFICATIONS

HARDWARE FEATURES

Device Functionality	Wireless Gateway
Embedded Controller	32-bit Low Power ARM7 Microcontroller with Internal FLASH (Field Upgradable)
Serial Interfaces	RS232 or RS485 (Software Selectable with Modbus Master/Slave Function)
Configuration	RS232 (RJ45) Configuration/Debug Interface
Self-Diagnostics	Contains Comprehensive Self-Checking Software and Hardware for Continuous Monitoring of Operation

WIRELESS COMMUNICATIONS

Type	900MHz ISM Band, FSK (Frequency-Shift Keying), FHSS (Frequency Hopping Spread Spectrum)
Frequency	915 MHz to 928 MHz
Data Rate	115.2 kbps / 9600 bps
Output Power	1 mW to 1 W
Receiving Sensitivity	-100 dBm @ 115.2 bps or -110 dBm @ 9600 bps
Range Up to	64km with Clear Line of Sight
Type	2.4GHz Optional Version Available, ISM, DSSS

CERTIFICATIONS

FCC	FCC Part 15
Australia	C-Tick
Industry Canada	(IC) ICES-003
Safety Class I	Division 2

MECHANICAL SPECIFICATIONS

Transmitter Dimensions	97 mm (W) x 36 mm (H) x 76 mm (D)
Mounting Hardware	DIN Rail or Direct Mount

ELECTRICAL SPECIFICATIONS

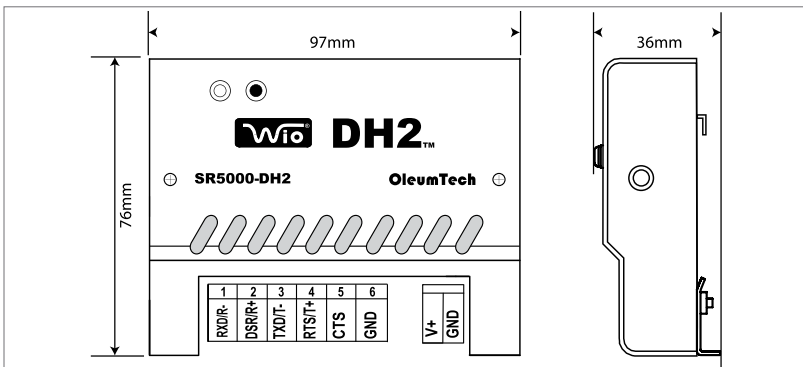
DC Power Input	30 VDC Maximum; 12 VDC Normal; 9 VDC Minimum
Average Power Input	2 Watt
Power Consumption Idle	100 mA; Configuration: 110 mA; Transmission: 350mA

GENERAL SPECIFICATIONS

Operating Conditions	Temp: -40°C to 85°C / Class I; Div 2 (Up to 80°C)
Humidity	0 to 99%, Non-Condensing
Warranty	2-Year Parts and Labour

ORDERING INFORMATION

This Device is	Base Unit SR5010-DH2
Wirelessly Connects to	WIO® DH2, Base Unit or Class I; Division 1 Transmitters



DH2 NETWORKING DIAGRAM



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