



Datasheet - SR5000-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 40-Mile 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 Class I; Division 1 Transmitters
- User-Friendly BreeZ® Configuration Software



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



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 Labor, Installation and Maintenance Costs
- Helps Meet Regulatory Requirements
- Industrial Strength Performance & Durability

Wireless Gateway	902-928 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

Technical Specifications

HARDWARE FEATURES

Device Functionality	· Wireless Gateway
Embedded Controller	· 32-bit Low Power ARM7 Microcontroller with Internal FLASH (Field Upgradeable)
Serial Interfaces	· RTU Port (RS232/RS485 Modbus Master or Slave) Terminal Block
Configuration	· Config/Debug Port - RS232 Slave Only (RJ-45)
Self-Diagnostics	· Contains Comprehensive Self-Checking Software and Hardware for Continuous Monitoring of Operation

WIRELESS COMMUNICATIONS

Type: 900 MHz	· ISM Band, FSK (Frequency-Shift Keying), FHSS (Frequency Hopping Spread Spectrum)
Frequency	· 902 MHz to 928 MHz
Data Rate	· 9600 bps / 115.2 kbps
Output Power	· 1 mW to 1 W
Receiving Sensitivity	· -110 dBm @ 9600 bps or -100 dBm @ 115.2 kbps
Range	· Up to 40 Miles with Clear Line of Sight
Type: 2.4 GHz	· Optional Version Available, ISM, DSSS
Antenna Connector	· MMCX

CERTIFICATIONS

FCC		· FCC Part 15
Industry Canada (IC)		· ICES-003
Safety		· Class I; Division 2

MECHANICAL SPECIFICATIONS

Dimensions	· 3.8" (W) x 3" (H) x 1.4" (D) / 96.5 mm (W) x 76.2 mm (H) x 35.6 mm (D)
Package Dimensions	· 8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D)
Weight	· Net: 0.75 lbs / 0.3 kg; Packaging: 1 lbs / 0.4 kg
Mounting Hardware	· DIN Rail or Direct Mount

ELECTRICAL SPECIFICATIONS

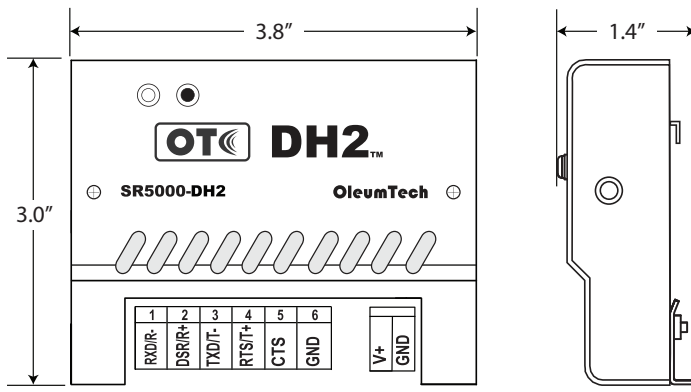
DC Power Input	· 24 VDC Maximum; 12 VDC Normal; 9 VDC Minimum
Average Power Input	· 2 Watt
Power Consumption	· Idle: 100 mA; Configuration: 110 mA; Transmission: 350 mA

GENERAL SPECIFICATIONS

Operating Conditions	· Temperature: -40 °F to 185 °F (-40 °C to 85 °C)/Class I; Div 2 (Up to 176 °F / 80 °C) · Humidity: 0 to 99 %, Non-Condensing
Warranty	· 2-Year Parts and Labor

ORDERING INFORMATION

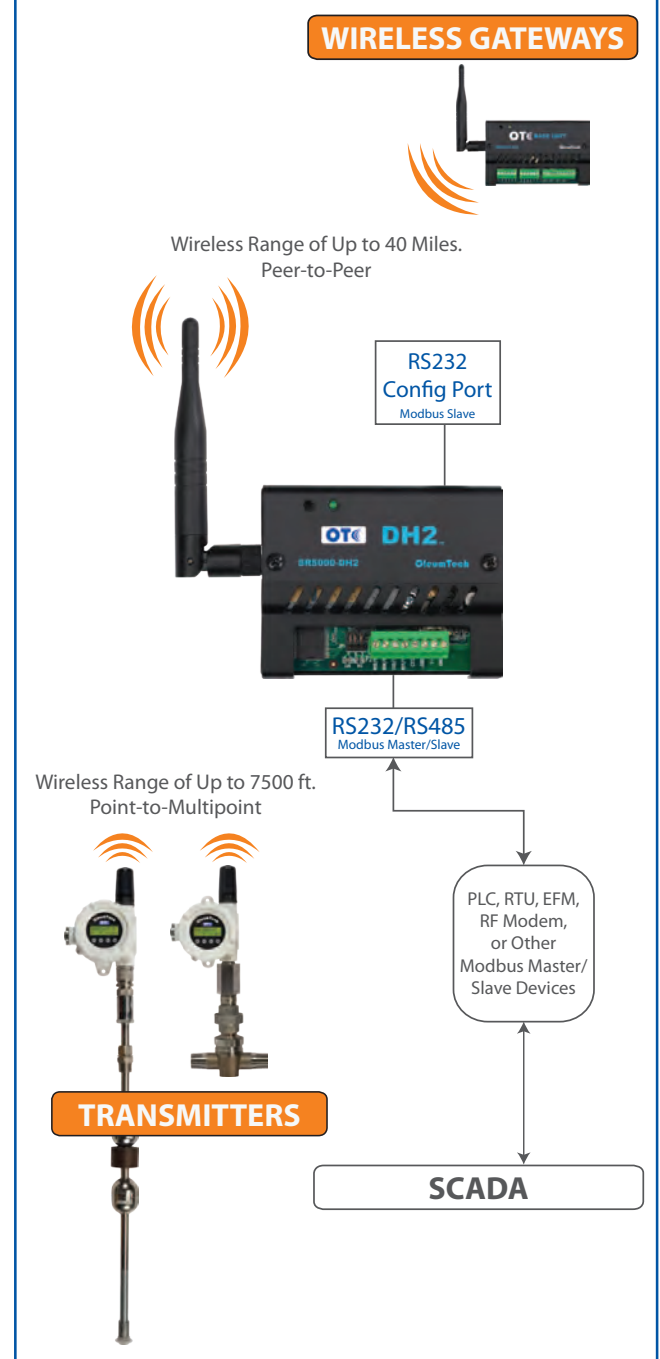
Model Number(s)	· 900 MHz: SR5000-DH2
Wirelessly Connects to:	· DH2, Base Unit, Wireless I/O Modules or Class I; Div 1 Transmitters



DH2 - WIRELESS GATEWAY



DH2 NETWORKING DIAGRAM



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SR5000-DH2

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