



PRODUCT HIGHTLIGHTS

- Industrial Wireless Gateway with I/O Interfaces and I/O Expansion Capabilities
- Compact, Low-Profile Design with Low Power Consumption
- Serial Interfaces:
 - RS232 or RS485 (Software Selectable, Modbus Master/Slave Function)
 - RS485 Expansion (Modbus Master/Slave Function)
 - RS232 Configuration
- I/O Interfaces:
 - 4 Analog Inputs (0-5 V)
 - 2 Discrete Inputs + 2 Discrete Outputs
- Peer-to-Peer Communication / Up to 60km Wireless Range
- I/O Mirroring; Full Repeater Capabilities
- License-Free 900 MHz Band, Secure Data Transmission (2.4 GHz Optional)
- Easy-to-Install, Configure and Use
- Scalable Solution
- Wirelessly Connects to Class I; Division 1 Transmitters
- Optional I/O Expansion Modules Available
- User-Friendly BreeZ® Configuration Software

Wireless Gateway with I/O Interfaces

Easy-to-Configure

BreeZ® Software

902-928 MHz ISM Licence-Free Band

Peer-to-Peer Communication

RS232/RS485 Serial Interface Modbus Master/ Slave Functions

4 AI, 2 DI, 2 DO

Optional Modbus Expansion Modules

Class I: Division 2

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
- Helps Meet Regulatory Requirements
- Industrial Strength Performance & Durability

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 with I/O Interface and Expansion Capabilities

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

RS485 Expansion Port - Modbus Master or Slave (RJ-45)

I/O Interfaces

4x Analog Inputs (0-5 V) with 12-bit ADC 2x Discrete Inputs (0-24 VDC) for Dry Contact Relay

or Open-Drain Output Devices 2x Open-Drain Outputs (Imax = 240 mA (Continuous Sink Current @ 80 °C),

Vmax = 24 VDC) Devices for Controlling External Devices

(Valves, Relays, Etc.) ·

Config / Debug Port - RS232 Slave Only (RJ-45) Configuration

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 902 MHz to 928 MHz Data Rate 9600 bps / 115.2 kbps

Output Power 1mW to 1W

Receiving Sensitivity -110 dBm @ 9600 bps or -100 dBm @ 115.2 kbps

Range Up to 64km with Clear Line of Sight

Type: 2.4 GHz Optional Version Available, ISM, DSSS

Antenna Connector MMCX

CERTIFICATIONS

RC. FCC FCC Part 15 Industry Canada (IC) ICES-003

(P SAFETY Class I: Division 2

MECHANICAL SPECIFICATIONS

Dimensions 124.5mm(W)x76.2mm(H)x35.6mm(D)

203mm(W)x152mm(H)x63mm(D) Package Dimensions Weight Net: 0.3 kg; Packaging: 0.4 kg

Mounting Hardware DIN Rail or Direct Mount

ELETRICAL SPECIFICATIONS

Temperature: -40 °C to 85 °C Operating Conditions

Class I; Div 2 Up to 80 °C

Humidity: 0 to 99 %, Non-Condensing

Warranty 2-Year Parts and Labour

ORDERING INFORMATION

Model Number(s) 900 MHz: WM2000-002

Wirelessly Connects To Base Unit, DH2, Wireless I/O Modules or Class I; Div 1

Transmitters





