



Datasheet - WM3000-002

PRODUCT HIGHLIGHTS

- Expands Analog Input Capabilities to Base Unit Wireless Gateway
- 4x Analog Inputs
- Supports 0-5 V / 0-10 V / 4-20 mA (Independently Selectable)
- 24-bit ADC
- 9-24 VDC Power Input
- Compact, Low-Profile Design with Low Power Consumption
- Easy-to-Install, Configure and Use
- Scalable Solution



APPLICATIONS

- Oil & Gas, Pipeline, Petro-Chem, Water/Wastewater, Utilities, Irrigation Systems, Mining SCADA Systems, 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

Analog Input Expansion Module	4x Analog Inputs	0-10 V / 4-20 mA Selectable Modes
24-bit ADC	9-24 VDC Power Input	Easy-to-Configure BreeZ Software
Low Power Consumption	Works with Base Unit	Class I; Division 2

Technical Specifications

HARDWARE FEATURES


Device Functionality	· Analog Input Expansion Module
Device Interface	· Standard RS232 Serial
I/O Interface	· 4x Analog Inputs
Resolution	· 24-bit ADC
Accuracy	· 0.1 % of Full Scale, 0.2% of Full Scale Over Temperature Range
Sensor/Receiver Voltage	· (2-Wire) 4-20 mA; (3-Wire) 0-5 V or 0-10 V (Jumper Selectable)
Input Impedance	· 250 ohm (4-20 mA), 200K (0-5 V), 133K (0-10 V)
RS485/Serial	· RS485 (2-Wire), 9,600/19,200 Baud, Modbus/RTU Protocol
Mult-Dropped Units	· 8 Max
Self-Diagnostics	· Contains Comprehensive Self-Checking Software and Hardware for Continuous Monitoring of Operation

CERTIFICATIONS & SAFETY

Over Voltage Rating	· Transient Voltage Suppressor on Each Port
Short Circuit Protection	· Fuse Protection (375 mA)

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 36.5 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

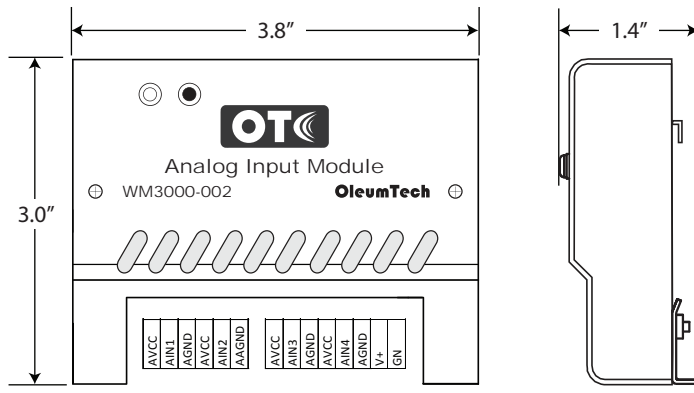
DC Power Input	· 24 VDC Maximum; 12 VDC Normal; 9 VDC Minimum
Power Consumption	· 60 mW @ 12 VDC
Wiring	· 18- 24 AWG

GENERAL SPECIFICATIONS

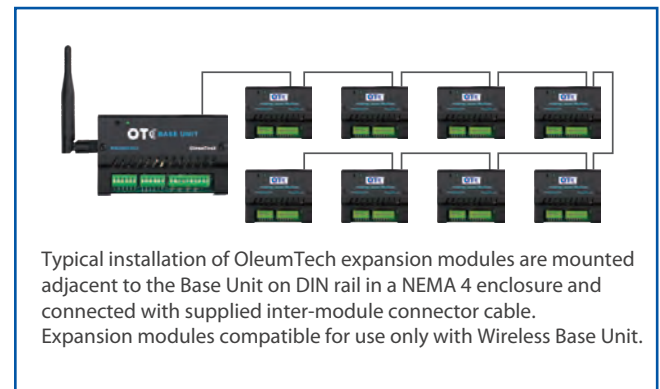
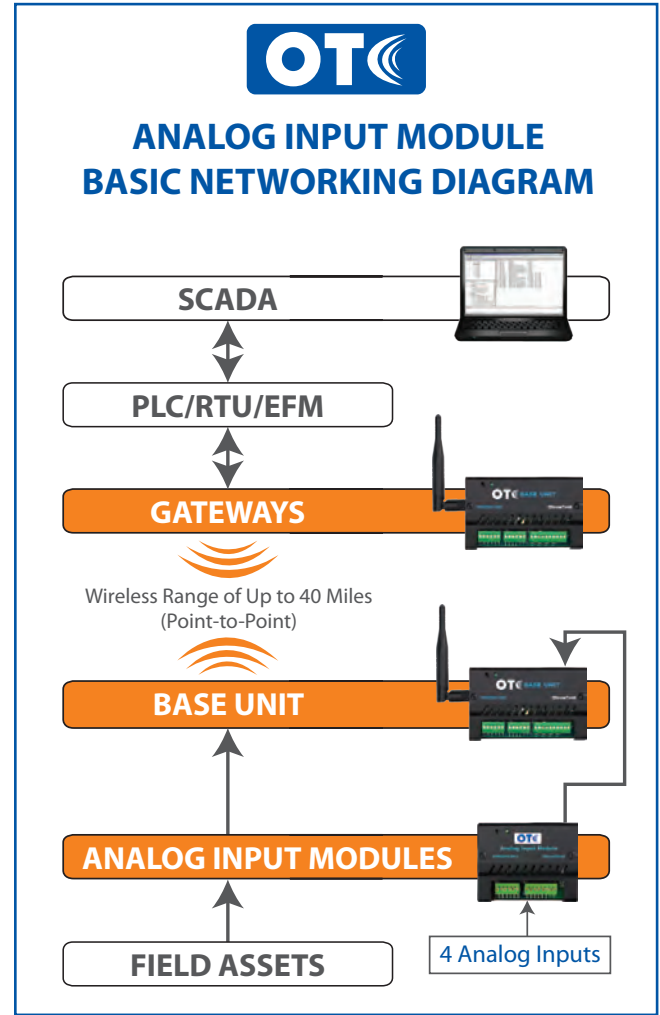
Operating Conditions	· Temperature: -40 °F to 185 °F (-40 °C to 85 °C) / Class 1; Div 2 (Up to 176 °F / 80 °C)
	· Humidity: 0 to 95 %, Non-Condensing
Warranty	· 2-Year Parts and Labor

ORDERING INFORMATION

Model Number(s)	· 900 MHz: WM3000-002
Connects to:	· Base Unit, or Other Expansion Modules



ANALOG INPUT MODULE



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WM3000-002

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