



ANALOG OUTPUT MODULE WM3000-001



PRODUCT HIGHLIGHTS

- Expands Analog Output Capabilities to Base Unit Wireless Gateway
- 4x Analog Outputs
- 1-5 V (3-Wire) / 4-20 mA (2-Wire)
- 12-bit ADC Resolution
- 9-24 VDC Power Input
- Compact, Low-Profile Design with Low Power Consumption
- Easy-to-Install, Configure and Use
- Scalable Solution

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	4 Analog Outputs	1-5V/4-20 mA Selectable Modes
12-bit ADC	9-24 VDC Power input	Easy-to-Configure BreeZ Software
Low Power Consumption	Works with Base Unit	Class I; Division 2

APPLICATIONS

- Oil & Gas, Pipeline, Petro-Chem, Water/Wastewater, Utilities, Irrigation Systems, Mining SCADA Systems, 3A Sanitary, Pharmaceuticals, Biotechnology, and Much More



TECHNICAL SPECIFICATIONS

HARDWARE FEATURES

Device Functionality	Analog Input Expansion Module
Device Interface	Standard RS232 Serial
I/O Interface	4 x Analog Inputs
Resolution	12-bit ADC
Accuracy	0.5% of Full Scale, 0.2% of Full Scale Temperature Range
Transmitter Voltage	Vmin = -8V (4-20mA), 12V (1.5V); Vmax = 24VDC
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
Multi-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
FCC	FCC Part 15
Industry Canada (IC)	ICES -003
Safety	Class I; Division 2

MECHANICAL SPECIFICATIONS

Dimensions	96.5mm (W) x 76.2 mm (H) x 36.5 mm (D)
Package Dimensions	203mm (W) x 152 mm (H) x 63 mm (D)
Weight	Net: 0.2kg; Packaging 0.4kg
Mounting Hardware	DIN Rail or Direct Mount

ELECTRICAL SPECIFICATIONS

DC Power Input	24 VDC Maximum; 12 VDC Normal; 6 VDC Minimum
Power Consumption	60 mW
Wiring	18-24 AWG

GENERAL SPECIFICATIONS

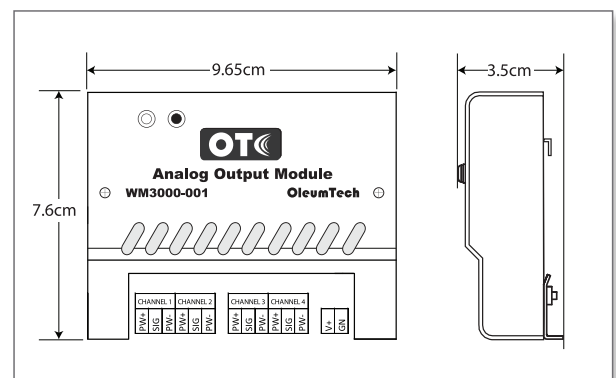
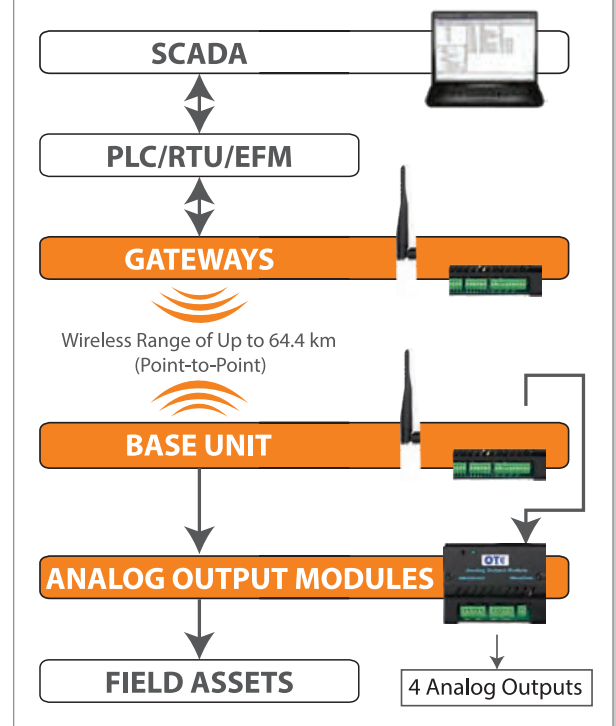
Operating Conditions	Temperature -40°C to 85°C / Class I; Div 2 (Up to 80°C)
Humidity:	0 to 95%, Non-Condensing
Warranty	2-Year Parts and Labour

ORDERING INFORMATION

Model Number(s)	900MHz: WM 3000-001
Connects to	Base Unit or Other Expansion Modules



ANALOG OUTPUT MODULE BASIC NETWORKING DIAGRAM



Typical installation of OleumTech expansion modules are mounted adjacent to the Base Unit on DIN rail in a NEMA 4 enclosure and connected with supplied inter-module connector cable. Expansion modules compatible for use only with Wireless Base Unit.

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