



## 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

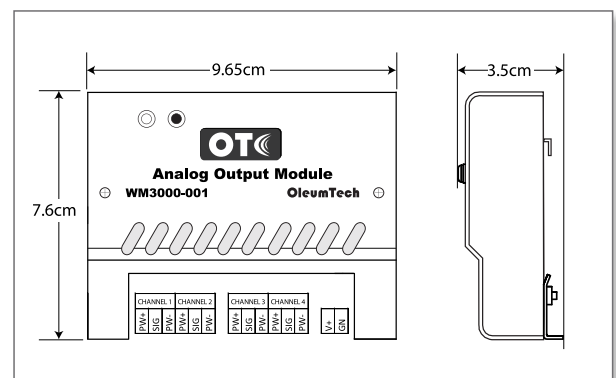
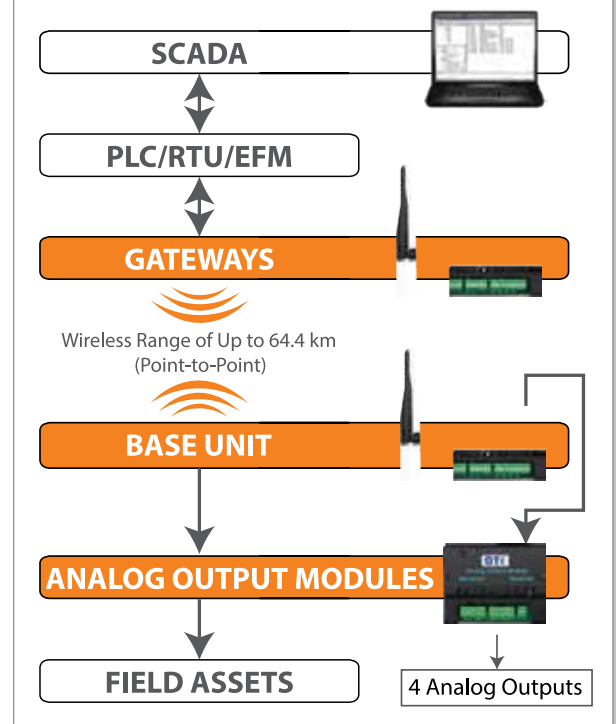
Operating Conditions	Temperature -40°C to 85°C / Class I; Div 2 (Up to 80°C)
Humidity:	0 to 95%, Non-Condensing
Warranty	2-Year Parts and Labour

## 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.

## Automation Group

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