



Highlights

- Provides 4 analog outputs
- Supports 1-5 Vdc (3-Wire) / 4-20 mA (2-Wire)
- Designed for use with a DH1 Wireless Gateway
- RS485 Serial connectivity
- -40 °C to 80 °C (-40 °F to 176 °F)
- Class I, Division 2 (Zone 2) certified



US Patent #6967589

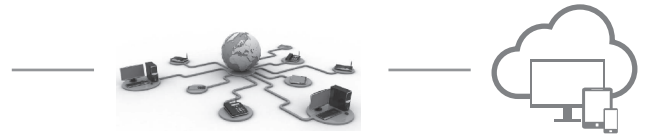


OTC Transmitters

OTC Gateway

Local
Controller

RTU/EFM/PLC/
DCS/HMI/
Long-haul Radio



Network Infrastructure

Cloud (Analytics)

Analog Output Expansion Solution for the DH1 Gateway

4 Analog Outputs

The OleumTech® OTC Analog Output Module is designed exclusively for use with a DH1 Wireless Gateway for integrating four analog outputs. Each output can support either 1-5 Vdc (3-wire) or 4-20 mA (2-wire) signal. Jumpers are utilized to set the Slave ID and termination. No additional programming is required. The module only supports RAW COUNT format.

Low-Power, Reliable

The Analog Output Module is certified for use in Class I, Division 2 (Zone 2) hazardous locations and accepts 9-24 Vdc external power. Its compact footprint easily fits inside a NEMA enclosure. This Analog Output Module is equipped with two RS485 Serial ports (RJ-45) for supporting multi-drop applications.



Multi-droppable I/O expansion solution for the DH1 Gateway

Analog Output Module

Technical Specifications

HARDWARE FEATURES

Device Functionality	· Analog Output Expansion Module for DH1 Wireless Gateway
Device Interface	· RS485 (2-Wire), 9,600/19,200 Baud, Modbus/RTU Protocol
I/O Interface	· 4 Analog Outputs
Resolution	· 12-bit ADC
Accuracy	· 0.05 % of Full Scale, 0.2 % of Full Scale over Temperature Range
Excitation Voltage	· $V_{min} = 8.5\text{ V}$ (4-20 mA), 13.5 V (1-5 V); $V_{max} = 24\text{ Vdc}$

CERTIFICATIONS & COMPLIANCE

Over Voltage Rating	· Transient Voltage Suppressor on Each Port
Safety	· Class I, Division 2, Groups A, B, C, D T4; Ex nA IIC T4 · Class I, Zone 2 AEx nA IIC T4
	· ATEX: Sira 14ATEX4143X; Ex nA IIC T4 Gc
	· IECEx: SIR 13.0055X; Ex nA IIC T4 Gc

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: 0.5 lbs / 0.2 kg; Gross: 1 lbs / 0.4 kg
Mounting	· DIN Rail Mountable with Height Adjustability

ELECTRICAL SPECIFICATIONS

DC Power Input	· 9-24 Vdc
Power Consumption	· 60 mW @ 12 Vdc
Wiring	· 18- 24 AWG

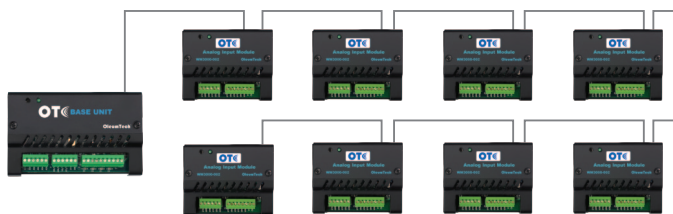
GENERAL SPECIFICATIONS

Operating Conditions	· Temperature: -40 °F to 176 °F (-40 °C to 80 °C) · ATEX/IECEx: -40 °F to 176 °F (-40 °C to 80 °C) · Humidity: 0 to 99 %, Non-Condensing
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Warranty	· 2-Year Parts and Labor
Country of Origin	· USA

ORDERING INFORMATION

Model Number	· WM3000-001
Connects To	· DH1 Wireless Gateway and Expansion Modules
Configuration Cable	· SX1000-CC2, 20-ft All-in-One Configuration Cable



Typical installation of OleumTech expansion modules are mounted adjacent to the DH1 Base Unit on DIN rail in a NEMA 4 enclosure and connected with supplied inter-module connector cable. The I/O Expansion Modules are only compatible with the DH1 Gateway.

Networking Diagram

