

DATASHEET







- 4x analog inputs (24-bit ADC)
- Designed for use w/ DH1 Wireless Gateway
- Independently selectable inputs for 0-10 Vdc or 4-20 mA mode
- RS485 serial / multi-droppable
- -40 °C to 80 °C
- Class I, Division 2 (Zone 2) certified











US Patent #6967589



OTC Transmitters

OTC Gateway







Cloud (Analytics)



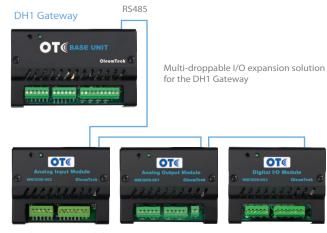
Add Additional Analog Inputs to a DH1 Gateway

4x High Resolution Analog Inputs

The OleumTech® Analog Input Module is designed for conveniently adding four high resolution analog inputs (24-bit ADC) to the DH1 Wireless Gateway over RS485 Serial connectivity. Each input can be independently selected for either 0-10 Vdc or 4-20 mA mode of operation.

Low-Power, Small Footprint

The Analog Input Module is certified for use in Class I, Division 2 (Zone 2) hazardous locations and accepts 9-24 Vdc external power. Its compact, small footprint form factor easily fits inside a NEMA enclosure. The Analog Input Module is equipped with two RS485 Serial ports (RJ-45) for allowing multiple I/O Modules to be daisychained to the DH1.



Analog Input Module



Model Number

Configuration Cable

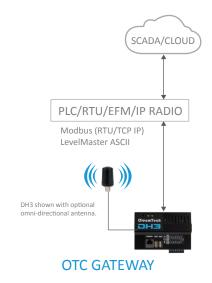
Connects To

· WM3000-002

Technical Specifications

HARDWARE FEATURES **Device Functionality** · Analog Input Expansion Module for DH1 Wireless Gateway 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 Multi-Dropped Units Self-Diagnostics · Contains Comprehensive Self-Checking Software and Hardware for Continuous Monitoring of Operation **CERTIFICATIONS & COMPLIANCE** Over Voltage Rating · Transient Voltage Suppressor on Each Port Short Circuit Protection · Fuse Protection (375 mA) · Class I, Division 2, Groups A, B, C, D T4; Ex nA IIC T4 Safety \cdot Class I, Zone 2 AEx nA IIC T4 / 9-30 Vdc, Ta = -40 to 176 °F (-40 °C to +80 °C) · ATEX: Sira 14ATEX4143X; Ex nA IIC T4 Gc CE EX \cdot IECEx: SIR 13.0055X; Ex nA IIC T4 Gc / 9-30 Vdc, Ta = -40 to 176 °F (-40 °C to +80 °C) **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: 0.75 lbs / 0.3 kg; Gross: 1 lbs / 0.4 kg Mounting · DIN Rail Mountable with Height Adjustability **ELECTRICAL SPECIFICATIONS** DC Power Input **Power Consumption** · 60 mW @ 12 Vdc Wiring · 18- 24 AWG **GENERAL SPECIFICATIONS** · Temperature: Class I, Div 2: -40 °F to 176 °F (-40 °C to 80 °C) Operating Conditions ATEX/IECEx: -40 °F to 176 °F (-40 °C to 80 °C) · Humidity: 0 to 99 %, Non-Condensing Warranty · 2-Year Parts and Labor Country of Origin ·USA ORDERING INFORMATION

Networking Diagram







· DH1 Base Unit Wireless Gateway and Expansion Modules

· 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. Expansion modules compatible for use only with DH1 Gateway.



