OleumTech®

DATASHEET





Highlights

- Wirelessly gather/distribute sensor data
- Map I/O anywhere within the network
- Modbus master/slave functionality
- Ethernet connectivity facillitates IoT and IIoT implementation
- 2x Configurable Serial ports (RS232/RS485)
- Data logging capabilities / web server
- -40 °C to 80 °C
- 900 MHz or 2.4 GHz radio option
- Secure AES encryption
- Class I, Division 2 (Zone 2) certified



US Patent #6967589



OTC Transmitters

OTC Gateway

Network Infrastructure

Cloud (Analytics)

Gateway with Ethernet and Serial Connectivity

Primary Data Collection Point

The OleumTech® DH3 Wireless Gateway plays an integral role in the OTC Sensor and I/O Network by being able to wirelessly collect critical process data from OTC Wireless Transmitters, I/O Modules, and other Gateways. The data is stored in its 1920-point Modbus register holding table.

Peer-to-Peer Advanced Networking

In the OTC Sensor Network, multiple Wireless Gateways can be placed into the same network to form a much larger sensor network. All Gateways can have their own set of Transmitters and they have the ability to communicate with other Gateways in the network. With this powerful advantage, you can setup sophisticated I/O distribution systems and migrate data with extreme flexibility, scalability, and ease.

Data Logging Capabilities

The DH3 offers both event-based data logging and time-based trending/logging capabilities. The data can be stored onto its internal RAM (volatile) or onto an optional industrial-grade Micro SD card (non-volatile). Trend graphs are accessible via the DH3's web server.

Ethernet + Serial + Local Display Option

Equipped with Ethernet and two configurable Serial ports, the DH3 can interface third-party Modbus devices as a Master and/or Slave for delivering data to the cloud. OleumTech offers Serial I/O Expansion Modules for use with the DH3 for added functionality. An optional touchscreen LCD display is available to instantly view process data and access device settings. The local display requires no user configuration.

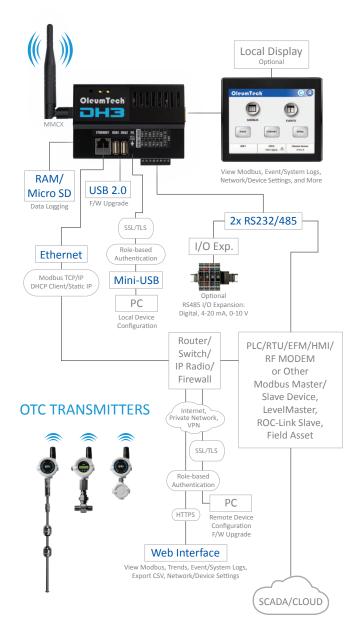
OleumTech®

Technical Specifications

HARDWARE FEATURES	
Device Functionality	· Wireless Gateway with Ethernet/Serial Connectivity and Data Logging Capabilities
Embedded Controller	Wireless Gateway with Etherner/Serial Connectivity and Data Logging Capabilities 32-Bit Power ARM Cortex - A9core Microprocessor, Up to 800 MHz CPU Speed
Memory	· Flash Memory: 4 GB / SD RAM Memory: 512 MB
	Modbus TCP/IP Master/Slave, DHCP Client/Static IP (Device Designed to Work Behind Firewall)
Ethernet 10/100/1000BASE-T	- Supports Local/Remote Device Configuration Using BreeZ [®] 5.0 or Higher/Firmware Upgrade
	- Supports Auto-MDIX/Auto-Crossover for ad-hoc networking (PC directly to DH3)
	· 2x RTU Ports (RS232/RS485 Software Configurable)
Serial Interfaces	· Modbus Master/Slave, LevelMaster ASCII Slave, ROC-Link Master (Supports Opcodes 17 and 10)
	ROC: Read up to 10 User Configurable (TLP) Points, INT16 (signed or unsigned) or FL(OAT)
2x USB 2.0 Host Ports	· Supports Firmware Upgrade (USB Flash Drive Required)
1x Mini-USB (OTG)	· Supports Local Device Configuration Using BreeZ [®] 5.0 or Higher/Firmware Upgrade
Micro SD Card Slot	• Only Use Industrial-Grade Micro SD Cards: Part # SX1000-SD2 (-40 °C to 70 °C)
Device Diagnostics	· Health Tag: Supply Voltage
DATA LOGGING	Records Data to Internal RAM, MicroSD Card Option for Data Persistence
Trending (RAM/Micro SD)	800,000 Pts Max Regardless of Memory Capacity; Supports Multiple Trends; Exportable to .CSV
Event Logging (RAM/Micro CD)	· 100,000 Pts Max Regardless of Memory Capacity
Event Logging (RAM/Micro SD)	\cdot Event Types: Rising or Falling Edge Event Control: Deadband or On-Delay; Exportable to .CSV
System Logging (RAM/Micro SD)	\cdot 100,000 Pts Max Regardless of Memory Capacity, Viewable on Web Server or Local Display
WEB SERVER	
Features	\cdot View Modbus Data, Trends, Event and System Logs, Device/Network Settings, and More
Security/Privacy	· Role-based Authentication (Admin/User/Guest), HTTPS
BreeZ [®] SOFTWARE INTERFA	CE (PC APPLICATION)
Version/PC Platform	· BreeZ [®] Version 5.0 or Higher; PC with Windows [®] Vista or Higher
Connectivity	· Configurable via Mini-USB Port or Ethernet Port
Security/Privacy	· Role-based Authentication (Admin/User), SSL/TLS v1.2 (AES-256 Encryption)
WIRELESS COMMUNICATION	NS
	· ISM Band, FSK (Frequency-Shift Keying), AES Encryption 256-bit (900 MHz), 128-bit (915 MHz)
	\cdot 900 MHz: FHSS (Frequency Hopping Spread Spectrum) / 50 Freq Ch x 10 Hopping Tables
Type: 900 MHz / 2.4 GHz	· Channel Size: 500 KHz for 1 W Radio
	- 2.4 GHz: DSSS (Direct-Sequence Spread Spectrum), AES Encryption 128-bit
-	Channel Size: 5 MHz, Utilizes 12 out of 802.15.4 Standard 16 Channels
Frequency	· 902 to 928 MHz / 2.4 GHz
Bit Rate	· 900 MHz: 9600 bps / 115.2 kbps ; 2.4 GHz: 250 kbps
Output Power	· 900 MHz: Up to 1000 mW / 2.4 GHz: 63 mW
Receiving Sensitivity	· 900 MHz: -110 dBm @ 9600 bps, -100 dBm @ 115.2 kbps / 2.4 GHz: -100 dBm @ 250 kbps
Range (Peer-to-Peer)	• 900 MHz: Up to 40 Miles (64.4 Km) / 2.4 GHz: Up to 5.7 Miles (9.3 Km) ¹
Antenna Connector	·MMCX
CERTIFICATIONS	
fcc FC	· FCC Part 15
Inductor Canada (IC)	
Industry Canada (IC)	- ICES-003 - Class L Division 2. Groups A. B. C. D.T4-Ex pA IIC T4
ED.	• Class I, Division 2, Groups A, B, C, D T4; Ex nA IIC T4
Safety	· Class I, Zone 2, AEx nA IIC T4 Gc / 9-30 Vdc, Ta = -40 to 176 °F (-40 °C to +80 °C)
	ATEX: ITS15ATEX/8231X Ex na IIC T4 Cc
	• ATEX: ITS15ATEX48231X Ex nA IIC T4 Gc
0518 UI 1G	· IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C)
MECHANICAL SPECIFICATIO	· IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS
0518 MECHANICAL SPECIFICATIO DH3 Dimensions	· IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS · 4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D)
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions	· IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS · 4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) · 8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D)
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 lbs / 570 g
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 lbs / 570 g - DIN Rail Clip (Spring-Loaded)
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 lbs / 570 g - DIN Rail Clip (Spring-Loaded) S
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 lbs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 lbs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc -Local Display Off: 3 Watt; Local Display On: 5 Watt
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 lbs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211mA (typ), Transmission @100mW 248mA (typ)
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input	IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS · 4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) · 8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) · 1.3 Ibs / 570 g · DIN Rail Clip (Spring-Loaded) S · 9-30 Vdc · Local Display Off: 3 Watt; Local Display On: 5 Watt · LCD Unplugged: Idle 211mA (typ), Transmission @100mW 248mA (typ) ·LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261mA (typ)
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 lbs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211mA (typ), Transmission @100mW 248mA (typ)
MECHANICAL SPECIFICATION DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC See User Guide for Full Details GENERAL SPECIFICATIONS	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) 1.3 lbs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc -Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211 mA (typ), Transmission @100mW 248 mA (typ) -LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261 mA (typ) -LCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411 mA (typ)
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC See User Guide for Full Details	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) 1.3 lbs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc -Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211mA (typ), Transmission @100mW 248mA (typ) -LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261mA (typ) -LCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411mA (typ)
MECHANICAL SPECIFICATION DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC See User Guide for Full Details GENERAL SPECIFICATIONS	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) 1.3 lbs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc -Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211 mA (typ), Transmission @100mW 248 mA (typ) -LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261 mA (typ) -LCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411 mA (typ)
MECHANICAL SPECIFICATION DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC See User Guide for Full Details GENERAL SPECIFICATIONS Operating Conditions	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) 1.3 lbs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc Local Display Off; 3 Watt; Local Display On: 5 Watt LCD Unplugged: Idle 211 mA (typ), Transmission @100mW 248mA (typ) LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 411mA (typ) CCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411mA (typ) -Temperature: -40 °F to 158 °F (-40 °C to 70 °C) - Humidity: 0 to 99 %, Non-Condensing
MECHANICAL SPECIFICATION DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC See User Guide for Full Details GENERAL SPECIFICATIONS Operating Conditions Warranty	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) 1.3 lbs / 570 g DIN Rail Clip (Spring-Loaded) S -9-30 Vdc -Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211 mA (typ), Transmission @100mW 248mA (typ) -LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261mA (typ) -LCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411mA (typ) -Temperature: -40 °F to 158 °F (-40 °C to 70 °C) -Humidity: 0 to 99 %, Non-Condensing -2-Year Parts and Labor
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC See User Guide for Full Details GENERAL SPECIFICATIONS Operating Conditions Warranty Country of Origin	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) 1.3 lbs / 570 g DIN Rail Clip (Spring-Loaded) S -9-30 Vdc -Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211 mA (typ), Transmission @100mW 248mA (typ) -LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261mA (typ) -LCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411mA (typ) -Temperature: -40 °F to 158 °F (-40 °C to 70 °C) -Humidity: 0 to 99 %, Non-Condensing -2-Year Parts and Labor
MECHANICAL SPECIFICATIO DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC See User Guide for Full Details GENERAL SPECIFICATIONS Operating Conditions Warranty Country of Origin ORDERING INFORMATION	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 Ibs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc -Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211 mA (typ), Transmission @100mW 248mA (typ) -LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261mA (typ) -LCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411mA (typ) -Temperature: -40 °F to 158 °F (-40 °C to 70 °C) -Humidity: 0 to 99 %, Non-Condensing 2-Year Parts and Labor USA -900 MHz: WG-0900-DH3, 2.4 GHz: WG-2400-DH3 -OTC Wireless Devices (Gateways, Transmitters, I/O Modules)
0010 Control of Cont	- IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS - 4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) - 8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) - 1.3 Ibs / 570 g - DIN Rail Clip (Spring-Loaded) S - 9-30 Vdc - Local Display Off: 3 Watt; Local Display On: 5 Watt - LCD Unplugged: Idle 211 mA (typ), Transmission @100mW 248mA (typ) - LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261mA (typ) - LCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411mA (typ) - Temperature: -40 °F to 158 °F (-40 °C to 70 °C) - Humidity: 0 to 99 %, Non-Condensing - 2-Year Parts and Labor - USA - 900 MHz: WG-0900-DH3, 2.4 GHz: WG-2400-DH3 - OTC Wireless Devices (Gateways, Transmitters, I/O Modules) - Only Use Industrial-Grade Micro SD Cards: Part # SX1000-SD2 (-40 °C to 70 °C)
MECHANICAL SPECIFICATION DH3 Dimensions Package Dimensions Package Weight Mounting ELECTRICAL SPECIFICATION DC Power Input Average Power Input Power Consumption @12 VDC See User Guide for Full Details GENERAL SPECIFICATIONS Operating Conditions Warranty Country of Origin ORDERING INFORMATION Model Numbers Wirelessly Connects To	 IECEx: ETL15.0039X; Ex nA nC IIC T4 Gc / 9-30 Vdc, Ta = -4 to 176 °F (-20 °C to +80 °C) NS -4.6" (W) x 3.0" (H) x 2.0" (D) / 117 mm (W) x 76 mm (H) x 50 mm (D) -8" (W) x 6" (H) x 2.5" (D) / 203 mm (W) x 152 mm (H) x 63 mm (D) -1.3 Ibs / 570 g -DIN Rail Clip (Spring-Loaded) S -9-30 Vdc -Local Display Off: 3 Watt; Local Display On: 5 Watt -LCD Unplugged: Idle 211 mA (typ), Transmission @100mW 248mA (typ) -LCD Plugged In, but Off: Idle 220mA (typ), Transmission @100mW 261mA (typ) -LCD Plugged In, and On: Idle 368mA (typ), Transmission @100mW 411mA (typ) -Temperature: -40 °F to 158 °F (-40 °C to 70 °C) -Humidity: 0 to 99 %, Non-Condensing 2-Year Parts and Labor USA -900 MHz: WG-0900-DH3, 2.4 GHz: WG-2400-DH3 -OTC Wireless Devices (Gateways, Transmitters, I/O Modules)

Networking Diagram

OTC GATEWAY - DH3



¹ The maximum RF range data was collected under optimal test conditions, including a clear line of sight between antennas. Actual wireless RF range may vary depending on location, RF interference, weather, antenna type, cable type, and line of sight.

©2018 OleumTech Corporation. All rights reserved. OleumTech and BreeZ are registered trademarks of OleumTech Corporation in the United States. All other trademarks and trade names are the property of their respective holders. Specifications, design, and product descriptions subject to change without notice. This device contains proprietary intellectual property protected by US Patent #6967589. Document ID: 67-4057-001_N

