

MeshGuard

Battery-Operated Wireless Gas Detector



Cost-effective installation with no wiring

Easy operation with self-forming and self-healing wireless network

Designed for use in harsh and hazardous environments

Battery powered operation for up to 6 months

Intrinsically Safe



MeshGuard is a rugged, battery-powered toxic gas detector integrated with a wireless mesh radio modem. MeshGuards can quickly be installed in hazardous locations, and remote readings are displayed on the FMC-2000 wireless controller. Automatic network configuration makes the MeshGuard a truly unique wireless solution for remote chemical detection in hazardous areas.

Key Features

- Built-in mesh radio modem with up to 300m operating distance between nodes
- Low power consumption with long battery life
- Replaceable battery and sensor
- Loud audio and bright visual alarms
- Large, easy-to-read continuous display of gas concentration in ppm
- Highly resistant to RFI and EMI
- IP-65 rated weather resistant, and splash guard equipped for sensor protection
- Small and lightweight
- Magnetic mounting option for very quick and easy MeshGuard installation



MeshGuard inside protective stainless-steel housing



MeshGuard can be used on drilling rigs

Applications

- Oil and gas drilling operations
- Oil and gas production
- Plant maintenance turnarounds
- Industrial safety
- Tank farms
- Shipyards and maritime



ATEX



IECEX



MeshGuard

Specifications

Sensor Specifications*

Gas	Range (ppm)	Resolution (ppm)	Response Time (T90)
Carbon Monoxide (CO)	1 to 500	1	30 sec
Hydrogen Sulfide (H ₂ S)	0.1 to 100	0.1	20 sec

*Other toxic sensors: contact manufacturer

Detector Specifications*

Size	10.5" L x 3.7" W x 2.1" H (26.5cm x 9.5cm x 5.5cm)
Weight	1.3 lbs (0.6kg)
Visual Alarm	2 super-bright red LEDs
Audible Alarm	90dB @ 30cm
Calibration	Two-point field calibration
RF Frequency	2.4GHz ISM Band, IEEE 802.15.4 standard compliant
Operating Range	300 meters (line of sight)
Keypad	Three operation and programming keys
Display	Customized LCD (1" x 1.5" / 72mm x 108mm) with backlight
Power Supply	Lithium Battery, +3.6V
Operation Time	up to 6 months (Battery life will vary depending on Alarms conditions and temperature)
Operating Temperature	-40° to 122° F (-40° to +50° C) for CO and H ₂ S sensors
Humidity	10% to 90% relative humidity, non-condensing
IP Rating	IP-65
Certifications	US and Canada: CID1, Groups A, B, C, D, T4 Europe: ATEX II 1G Ex ia IIC T4 IECEX Ex ia IIC T4 Contact manufacturer for country-specific certification
RF Certifications	FCC Part 15 CE SRRC (Pending)

*Specifications are subject to change

MeshGuard Ordering Information

MeshGuard Detector Includes:

- MeshGuard detector with sensor as specified
- Operation and maintenance manual
- Calibration gas test adapter
- High-capacity Lithium battery installed
- Steel bracket or magnet mount
- Maintenance tool

MeshGuard System Configuration Options:

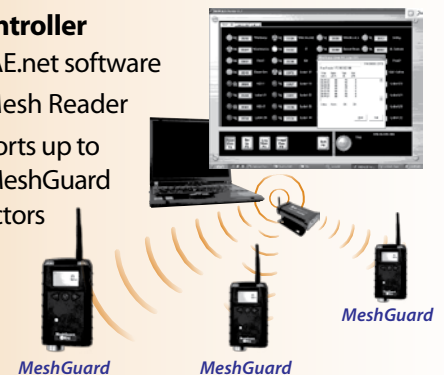
FMC 2000 Controller

Supports up to 24 MeshGuard Detectors



PC Controller

- ProRAE.net software
- RAEMesh Reader
- Supports up to 128 MeshGuard Detectors



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DS-1017-01

Ordering Information

Part Numbers

MeshGuard H ₂ S (0.1 to 100ppm)	D01-A001-011
MeshGuard CO (1 to 500ppm)	D01-A003-011

Toll-Free: 877-723-2878

