

MeshGuard

Battery-Operated Wireless Gas Detector


Wireless



Fastest deployment and decommissioning time

Simple to install and operate

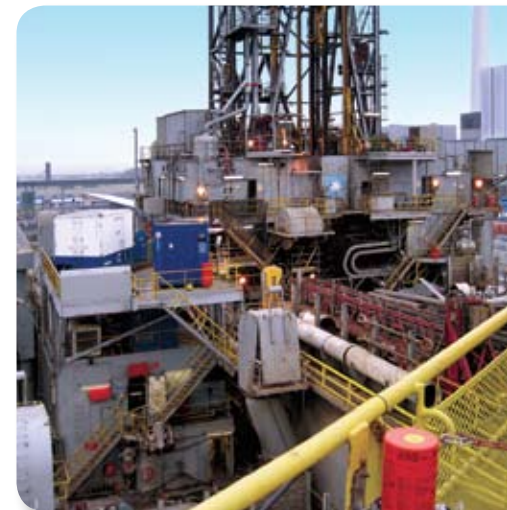
Rugged and reliable

Versatile to accommodate many applications

The MeshGuard gas detection monitor is a key building block of the MeshGuard intelligent network of connected sensors for gas detection in industrial safety applications. The MeshGuard system is designed for quick deployment in areas where traditional fixed gas detection monitors might have been used in the past, but a lower cost solution with faster deployment is needed. MeshGuard is available with field-replaceable precision sensors specifically designed to sense toxic and flammable gases.

Key Features

- Self-forming wireless network; units come online automatically
- Compact and lightweight
- IP-65 rated weather resistant, and splash guard equipped for sensor protection
- Multiple controller options for real-time wireless data collection and viewing
- Self-healing network automatically routes data back to controller through best wireless path available
- Battery powered operation for up to 6 months
- Intrinsically Safe
- Magnetic mounting option for very quick and easy MeshGuard installation



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



RAE PowerPak External Battery



MeshGuard inside protective stainless-steel housing



ATEX



IECEX



MeshGuard

Specifications

Sensor Specifications*

| Gas | Range | Resolution | Response Time |
|-------------------------------------|----------------|------------|---------------|
| Carbon Monoxide (CO) | 1 to 500 ppm | 1 ppm | 30 sec |
| Hydrogen Sulfide (H ₂ S) | 0.1 to 100 ppm | 0.1 ppm | 20 sec |
| Sulfur Dioxide (SO ₂) | 0.1 to 20 ppm | 0.1 ppm | 30 sec |
| Flammables (LEL) | 0 to 100% LEL | 1% LEL | 15 sec |

*Other 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 | Disposable Lithium Battery, +3.6V (optional rechargeable external battery for extended run time) |
| Operating Time | Toxic Gas Sensors: Up to 6 months on internal battery (up to 2 years on external) Flammable Gas Sensor: Up to 5 days on internal battery (up to 22 on external) |
| Operating Temperature | -40° to 122° F (-40° to +50° C) for LEL, CO and H ₂ S sensors. Other sensors -4° to 122° F (-20° to +50° C) |
| 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 IM1/II 1G Ex ia I/IIC T4 IECEX Ex ia I/IIC T4 Contact manufacturer for country-specific certification |
| RF Certifications | FCC Part 15, CE, SRRC |

RAE PowerPak Specifications*

| | |
|------------------------------|--|
| Size | 12.2" L x 10.2" W x 5.5" H (31cm x 26cm x 14cm) |
| Weight | 27.8 lbs (12.6 kg) |
| Certifications | US and Canada: CID1, Groups A, B, C, D, T4 Europe: ATEX IM1/II 1G Ex ia I/IIC T4 IECEX Ex ia I/IIC T4 Contact manufacturer for country-specific certification |
| Operating Temperature | -40° to 131° F (-40° to +55° C) |

*Specifications are subject to change

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DS-1017-02

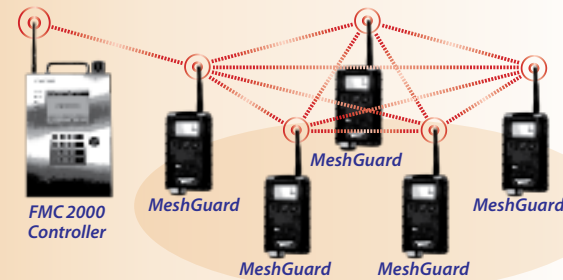
MeshGuard Ordering Information

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

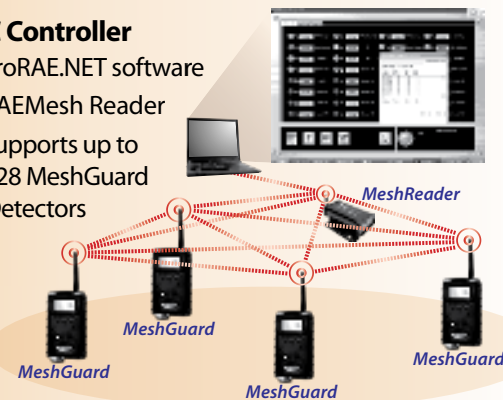
MeshGuard System Configuration Options:

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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