

Semi-Fixed Wireless Gas Monitor



RAE Systems MeshGuard

MeshGuard is a rugged, battery-powered toxic gas detector integrated with a wireless mesh radio modem. Key features include extremely fast installation, self-configuration of the network, and worldwide approved wireless frequency coverage. Designed for use in harsh environments and easy to service in the field, MeshGuard is a truly unique wireless solution for remote chemical detection in hazardous areas.

FEATURES

- · Fast deployment and decommissioning time
- · Simple to install and operate
- · Rugged and reliable
- · Versatile to accommodate many applications
- 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
- · SolarPak provides continuous run time
- · Intrinsically Safe
- Magnetic mounting option for quick and easy MeshGuard installation

APPLICATIONS

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



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
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Semi-Fixed Wireless Gas Monitor



RAE Systems MeshGuard

SPECIFICATIONS

Sensor Specifications

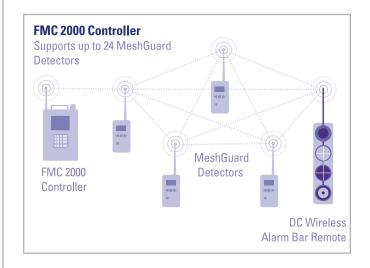
Sensor	Range	Resolution	Response Time
H ₂ S	0 to 100 ppm	0.1 ppm	T90 < 30 sec T10 < 30 sec
LEL/LEL IR	0 to 100% LEL	1% LEL	T90 < 30 sec T10 < 30 sec
CO	0 to 2000 ppm	1 ppm	T90 < 30 sec T10 < 30 sec
CO ₂	0 to 5% Vol 0 to 100% Vol	0.01% Vol 0.1% Vol	T90 < 30 sec T10 < 30 sec
02	0 to 25%	0.1%	T90 < 15 sec T10 < 15 sec
NH ₃	0 to 100 ppm	1 ppm	T90 < 90 sec T10 < 90 sec
Cl ₂	0 to 50 ppm	0.1 ppm	T90 < 30 sec T10 < 30 sec
SO ₂	0 to 20 ppm 0 to 100 ppm	0.1 ppm 1ppm	T90 < 60 sec T10 < 60 sec

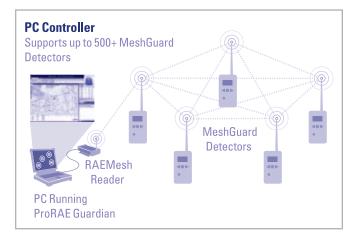
Detector Specifications

Detection ppedimenti		
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	
Operating Range	985 feet/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 1 year on external)	
	LEL Gas Sensor: Up to 21 days on external PowerPak battery	
	LEL IR Gas Sensor: Up to 2 months on internal battery ¹ (up to 1 year on external)	
	CO ₂ Gas Sensor: Up to 3 months on external PowerPak battery	
Operating Temperature	-40° to 122°F (-40° to +50°C) for LEL, LEL IR, CO and H $_2$ S sensors Other sensors -4° to 122°F (-20° to +50°C)	
Humidity	5% to 95% relative humidity, non-condensing	
IP Rating	IP-65	
Safety Certifications	US and Canada: CID1, Groups A, B, C, D, T4 Europe: ATEX IM1/II 1G Ex ia I/IICT4 IECEX Ex ia I/IICT4 Contact Geotech for country-specific certification	
Wireless Frequency	ISM license free band. IEEE 802.15.4 2.4 GHz	
Wireless Approvals	FCC Part 15, CE R&TTE, Others ²	
Radio Module	Supports RM2400 and RM2400A	
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 $^{1}\text{MeshGuard LEL IR units operating in temperatures below } - 4^{\circ}\text{F} \text{ (-}20^{\circ}\text{C) may require a PowerPak external battery for extended runtimes.}$ ² Contact Geotech for country specific wireless approvals and certificates. Specifications are subject to change.

MESHGUARD SYSTEM CONFIGURATION OPTIONS





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