

MeshGuard

Semi-Fixed, Wireless Gas Monitor



The MeshGuard is a battery operated, semi-fixed, wireless monitor for gas and gamma radiation.* An internal mesh radio allows it to form an intelligent network for enhanced safety without costly wiring. MeshGuard systems can easily be configured for a broad range of applications. The MeshGuard easily connects to a controller and/or wireless alarm bar.

- Fastest deployment and decommissioning time
- Simple to install and operate
- Rugged and reliable
- Versatile to accommodate many applications

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
- SolarPak provides 24/7 uptime
- 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



RAE PowerPak External Battery



MeshGuard inside protective stainless-steel housing



MeshGuard wireless gas detectors are designed for use in the harshest outdoor environments such as drilling rigs and in other industrial applications













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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%	1%	T90 < 30 sec T10 < 30 sec
CO	0 to 2000 ppm	1 ppm	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 < 200 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 1 ppm	T90 < 60 sec T10 < 60 sec

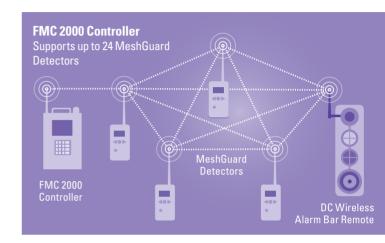
^{*}Other sensors: contact RAE Systems

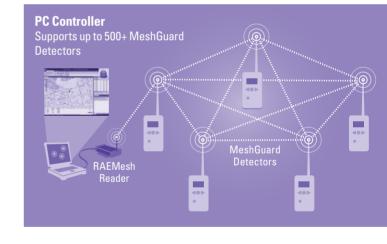
Detector Specifications

10.5" L x 3.7" W x 2.1" H (26.5cm x 9.5cm x 5.5cm)	
1.3 lbs (0.6kg)	
2 super-bright red LEDs	
90dB @ 30cm	
Two-point field calibration	
985 feet/300 meters (line of sight)	
Three operation and programming keys	
Customized LCD (1" x 1.5"/72mm x 108mm) with backlight	
Disposable Lithium Battery, +3.6V (optional rechargeable external battery for extended run 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** (up to 1 year on external)	
-40° to 122° F (-40° to +50° C) for LEL, LEL IR, CO and $\rm H_2S$ sensors Other sensors -4° to 122° F (-20° to +50° C)	
5% to 95% relative humidity, non-condensing	
IP-65	
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 RAE Systems for country-specific certification	
ISM license free band. IEEE 802.15.4 2.4 GHz	
FCC Part 15, CE R&TTE, Others ²	
Supports RM2400A	

¹ MeshGuard LEL IR units operating in temperatures below -4°F (-20°C) may require a PowerPak external battery for extended runtimes

MESHGUARD SYSTEM CONFIGURATION OPTIONS





² Contact RAE Systems for country specific wireless approvals and certificates. Specifications are subject to change.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.