



# MeshGuard Accessories

Tools That Enhance Your MeshGuard Monitoring Network

RAE Systems MeshGuard monitors detect a wide range of gases and quickly relay their data to a central controller in a self-forming, self-healing mesh radio network. MeshGuard is rapidly deployable in industrial and remote monitoring applications. All detectors are certified for the most hazardous environments—Class I, Division 1 or Zone 0. A variety of accessories are available for use with the MeshGuard wireless gas detection system.



PowerPak connected to MeshGuard monitor. Monitor is shown in protective stainless-steel housing, secured with included hardware.

## RAE POWERPAK

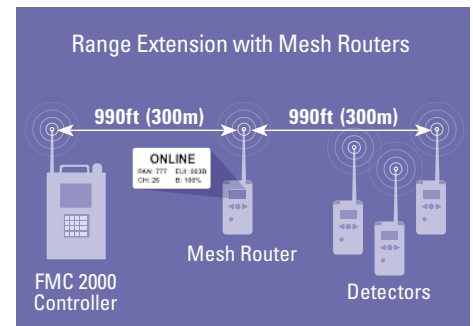
The RAE PowerPak is a rechargeable, external battery used to extend the run time of MeshGuard detectors.

- Powerpak is Class I, Division 1 (Zone 0) certified
- Hot swappable in the field
- PowerPak can operate an LEL detector for 20+ days, or an electrochemical sensor for 18+ months

## SPECIFICATIONS\*

Size	14.25" H x 10.2" W x 5.75" D (36.2cm x 26cm x 14.6 cm)
Weight	33 lbs (15kg) with four internal batteries
Operating Temperature	-40° to 131° F (-40° to +55° C)
Certifications	US and Canada: Class I, Division 1, 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

\*Specifications are subject to change.



## MESH ROUTER

The Mesh Router allows wireless sensor networks to be deployed at greater distances from a central controller. MeshGuard Monitors and Routers work together to find the best possible transmission path for the sensor readings. The MeshRouter displays the real-time wireless signal strength at any given location, which enables rapid determination of suitable locations for MeshGuard Monitors.

The Mesh Router is a Class I, Division 1 (Zone 0) portable wireless device that has two primary functions:

1. To extend the wireless transmission range between points.
2. As a system deployment tool. Prior to deploying detectors, the Mesh Router can provide real-time signal strength at any given location.

The Mesh Router can operate continuously for 10+ days with an internal battery or 45+ days with an external PowerPak.

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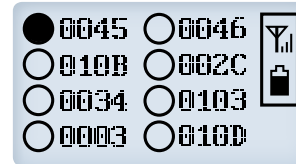
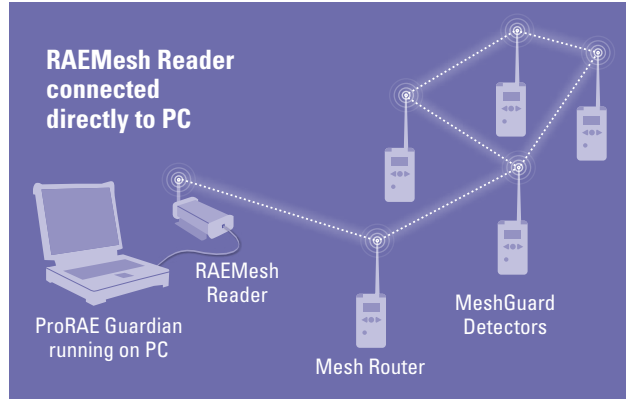
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## RAEMESH READER

The RAEMesh Reader is a device that allows the use of PC (instead of dedicated controller) to monitor wireless detectors in real time.

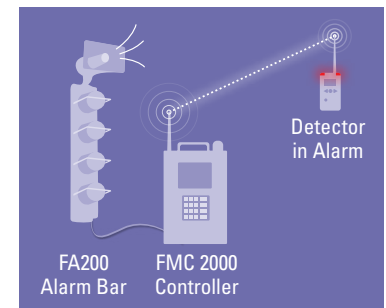
- The RAE Mesh Reader receives data wirelessly from remote detectors, and pushes data to ProRAE Guardian software running on a PC
- The RAE Mesh Reader can push data directly to a PC via RS232, or to a remote PC via ethernet
- The RAE MeshReader is designed to be located in non-hazardous, indoor locations. An optional outdoor antenna with a 30ft (10m) cable can be used to extend the usage to outdoor locations



## ECHOVIEW

The RAE Systems EchoView is a portable, intrinsically safe (Class I, Division 1 and Zone 0) alarm notification device that allows you to monitor your sensor network remotely. It displays the sensor readings of up to 16 MeshGuard Monitors on a wireless network and retrieves all monitor information that is typically viewed on the system controller.

- Class I, Division 1 (Zone 0) certified
- Allows users to be away from the controller and still be notified of alarm conditions
- The EchoView gets all sensor readings directly from the controller
- 10+ days run time with internal battery, 45+ days run-time with external PowerPak



## FA200 ALARM BAR

The FA200 Alarm Bar has one audible (112dB at 10ft/3m) and four visible alarms. The alarm logic is fully configurable from the FMC 2000 multi-channel controller.

The FA200 Alarm Bar uses a simple mil-spec connector to connect to the FMC-2000 controller up to 30ft (10m) away. The five internal relays on the controller come pre-wired for use with an FA200 Alarm Bar, or can be rewired to trigger a variety of external alarms or process controls.

[www.raesystems.com](http://www.raesystems.com)

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