Support Equipment for RAE MeshGuard Networks

geotech

RAE Systems MeshGuard Accessories

A variety of accessories are available for use with the MeshGuard wireless gas detection system. RAE Systems MeshGuard accessories support the mesh network by extending run times, providing greater transmission distances, and enhance monitoring capabilities. All detectors are certified for hazardous environments – Class I, Division 1 or Zone 0.

RAE POWERPAK

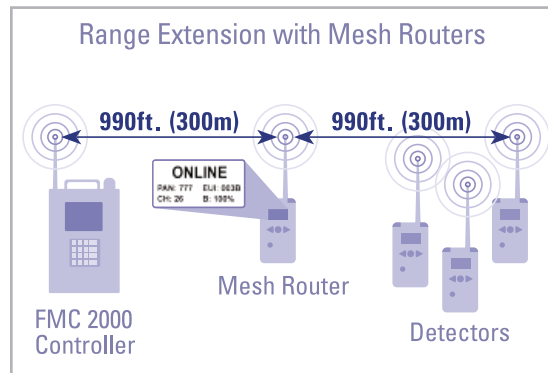The RAE PowerPak is a rechargeable, external battery used to extend the run time of MeshGuard detectors.

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

PowerPak Specifications*

Size	14.25" H x 10.2" W x 5.75" D (36.2cm x 26cm x 14.6cm)
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 Geotech for country-specific certification

*Specifications are subject to change.

MESH ROUTER

Range Extension with Mesh Routers

990ft. (300m)   990ft. (300m)

ONLINE
PAN: 777   EUI: 003B
CH: 26   B: 100%

Mesh Router

FMC 2000 Controller   Detectors

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 Mesh Router displays the realtime 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 continously for 10+ days with an internal battery or 45+ days with the external RAE PowerPak.

CALL GEOTECH TODAY (800) 833-7958

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Support Equipment for
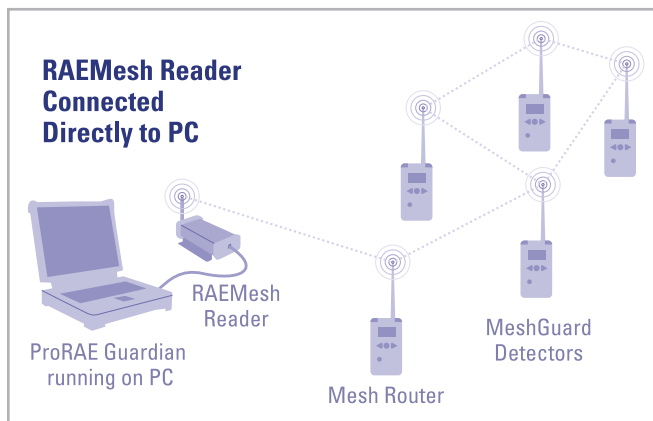# RAE MeshGuard Networks

RAE Systems MeshGuard Accessories

RAEMESH READER

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

- **The RAEMesh Reader receives data wirelessly from remote detectors, and pushes data to ProRAE Guardian software running on a PC**

- **The RAEMesh Reader can push data directly to a PC via RS232, or to a remote PC via ethernet**

- **The RAEMesh Reader is designed to be located in non-hazardous, indoor locations. An optional outdoor antenna with a 30 ft. (10m) cable can be used to extend the usage to outdoor locations**

RAEMesh Reader Connected Directly to PC

ProRAE Guardian running on PC

RAEMesh Reader

Mesh Router

MeshGuard Detectors

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.
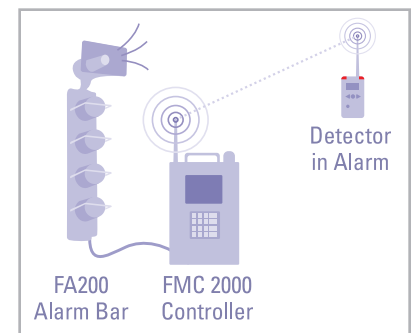
- **Class I, Division 1 (Zone 0) certified**

- **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 30 ft. (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.

Detector in Alarm

FA200 Alarm Bar

FMC 2000 Controller

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