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.

**RAE POWERPAK**

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

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

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>14.25&quot; H x 10.2&quot; W x 5.75&quot; D (36.2cm x 26cm x 14.6 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>33 lbs (15kg) with four internal batteries</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° to 131° F (-40° to +55° C)</td>
</tr>
</tbody>
</table>
| 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.
MeshGuard Accessories
Tools That Enhance Your MeshGuard Monitoring Network

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 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 30ft (10m) cable can be used to extend the usage to outdoor locations.

ECHOVVIEW
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.

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