The RAE Systems MeshGuard Gamma radiation detection monitor is a key building block of the MeshGuard intelligent network of connected sensors for gamma radiation detection in industrial and environmental monitoring applications. The MeshGuard system is designed for quick deployment in areas where low cost/high ROI solutions are required.

FEATURES

- Fastest deployment and decommissioning time
- Simple to install and operate
- Rugged and reliable
- Versatile to accommodate many applications
- Self-forming wireless network; units come online auto-matically
- Local display with Dose Rate in µR/h, µSv/h or µGy/h
- High sensitivity scintillator detector
- Compact and lightweight
- P-54 rated weather resistant
- Multiple controller options for real-time wireless data collection and viewing
- Directly compatible with ProRAE Guardian mobile command center software
- Self-healing network automatically routes data back to controller through best wireless path available
- Battery powered operation for up to 2 months
- SolarPak provides 24/7 uptime
- Magnetic mounting option for quick and easy MeshGuard installation

APPLICATIONS

- Environmental Monitoring & Protection
- Nuclear Industry Plant Monitoring
- Homeland Security & Venue Protection
- Plant Maintenance Turnarounds
- Industrial Safety
- Nuclear Medicine

2 Super-Bright Red LED Visual Alarm

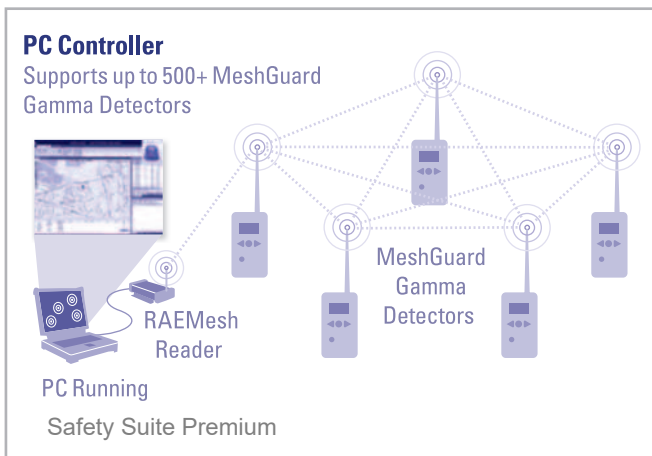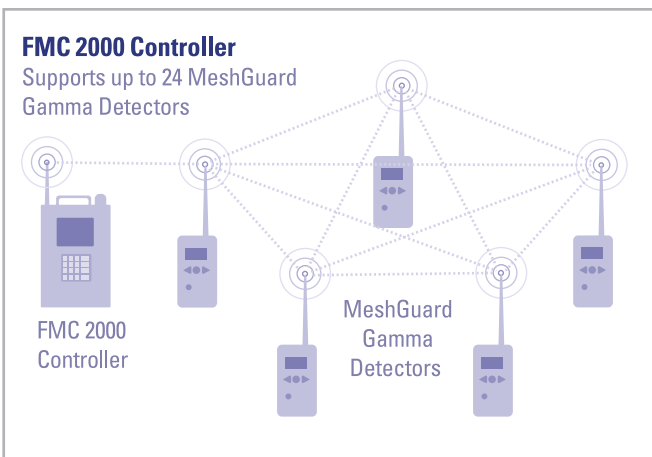**CALL GEOTECH TODAY**
(800) 833-7958

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue Denver, Colorado 80205
(303) 320-4764   FAX (303) 322 7242
email: sales@geotechenv.com   website: www.geotechenv.com

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MESHGUARD GAMMA ORDERING INFORMATION

MeshGuard Gamma Detector Includes:

- MeshGuard Gamma Detector
- Operation and Maintenance Manual
- High-Capacity Lithium Battery installed
- Maintenance Tool
- Radiation Check Source

MESHGUARD GAMMA SYSTEM CONFIGURATION OPTIONS

FMC 2000 Controller
Supports up to 24 MeshGuard Gamma Detectors

FMC 2000 Controller

MeshGuard Gamma Detectors

PC Controller
Supports up to 500+ MeshGuard Gamma Detectors

RAEMesh Reader

MeshGuard Gamma Detectors

PC Running

Safety Suite Premium

Technical Specifications	
Dose Rate Range	1 µR/h to 20 mR/h (0.01 µSv/h to 200 µSv/h, or 0.01 µGy/h to 200 µGy/h)
Energy Range	0.06 to 3.0 MeV (X-ray and Gamma radiation)
Accuracy	±20% from 100 µR/h to 20 mR/h (1 µSv/h to 200 µSv/h, or 1 µGy/h to 200 µGy/h) ±30% or 5µR/h from 1 µR/h to 100 µR/h (0.01 µSv/h to 1 µSv/h, or 0.01 µGy/h to 1 µGy/h), whichever is greater
Response Time	T90 < 5 sec (Dose Rate > 1 mR/h, 10 µSv/h or 10 µGy/h)
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
Operating Range	990 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	Up to 30 days on internal battery
Operating Temperature	-20° to 50°C (-4° to 122°F)
Humidity	5% to 95% relative humidity, non-condensing
IP Rating	IP-54
Wireless Frequency	ISM License free band. IEEE 802.15.4 2.4 GHz
Wireless Approvals	FCC Part 15, CE R&TTE, Others[1]
Radio Module	Supports TM2400A

[1] Contact Geotech for country specific wireless approvals and certificates. Specifications are subject to change.