

MESHGUARD GAMMA

Battery-Powered Wireless Radiation Detector



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.

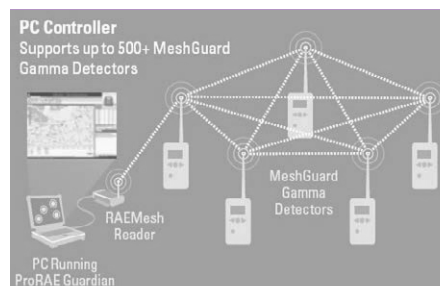
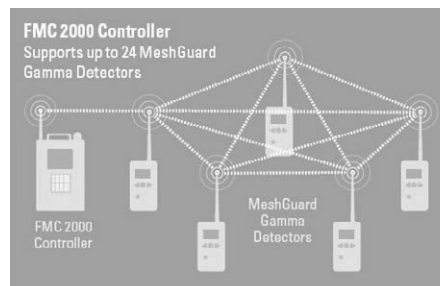
MeshGuard Gamma is available with field-replaceable pre-calibrated sensors specifically designed to sense gamma radiation.

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

MESHGUARD GAMMA DETECTOR INCLUDES:

- MeshGuard Gamma detector
- Operation and maintenance manual
- High-capacity Lithium battery installed
- Maintenance tool
- Radiation check source

MESHGUARD GAMMA CONFIGURATION OPTIONS



APPLICATIONS

- Environmental monitoring and protection
- Nuclear industry plant monitoring
- Homeland security & venue protection
- Plant maintenance turnarounds
- Industrial safety
- Nuclear medicine

KEY FEATURES

- Self-forming wireless network; units come online automatically
- Local display with Dose Rate in $\mu\text{R}/\text{h}$, $\mu\text{Sv}/\text{h}$ or $\mu\text{Gy}/\text{h}$
- High sensitivity scintillator detector
- Compact and lightweight
- IP-54 rated weather resistant
- Multiple controller options for real-time wireless data collection and viewing
- Directly compatible with Pro-RAE 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

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SPECIFICATIONS Specifications subject to change without notice

Dose Rate Range	1 μ R/h to 20 mR/h (0.01 μ Sv/h to 200 μ Sv/h, or 0.01 μ Gy/h to 200 μ Gy/h)	RF Frequency	2.4GHz ISM Band, IEEE 802.15.4 standard compliant
Energy Range	0.06 to 3.0 MeV (X-ray and Gamma radiation)	Operating Range	985 feet/300 meters (line of sight)
Accuracy	\pm 20% from 100 μ R/h to 20 mR/h (1 μ Sv/h to 200 μ Sv/h, or 1 μ Gy/h to 200 μ Gy/h)	Keypad	Three operation and programming keys
	\pm 30% or 5 μ R/h from 1 μ R/h to 100 μ R/h (0.01 μ Sv/h to 1 μ Sv/h, or 0.01 μ Gy/h to 1 μ Gy/h), whichever is greater	Display	Customized LCD (1" x 1.5"/72mm x 108mm) with backlight
Response Time	T90 < 5 sec (Dose Rate > 1 mR/h, 10 μ Sv/h or 10 μ Gy/h)	Power Supply	Disposable Lithium Battery, +3.6V (optional rechargeable external battery for extended run time)
Size	10.5" L x 3.7" W x 2.1" H (26.5cm x 9.5cm x 5.5cm)	Operating Time	Up to 60 days on internal battery
Weight	1.3 lbs (0.6kg)	Operating Temperature	-20° to 50° C (-4° to 122° F)
Visual Alarm	2 super-bright red LEDs	Humidity	5% to 95% relative humidity, non-condensing
Audible Alarm	90dB @ 30cm	IP Rating	IP-54
		RF Certifications	FCC Part 15, CE, SRRC



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