

THE BATTERY-POWERED WIRELESS GAS DETECTION SYSTEM.

The MeshGuard is a leading gas detection system. It can be rapidly deployed in numerous industrial and remote monitoring applications.

As well as saving lives, the MeshGuard can help you save substantial amounts of money in the regulation compliance and information processing field. MeshGuard devices are fully supported by the ProRAE Guardian software platform.

The MeshGuard combines one of the most advanced gas detection technologies for industrial safety applications with the latest in connected data systems.

With its powerful wireless sensors that can be deployed rapidly in any environment, the MeshGuard eliminates the need for lengthy and costly installation projects.

By detecting and recording a wide range of deadly gases and quickly relaying the data to an easy-to-understand central system, safety personnel have up-to-date information from the network of sensors at the touch of a button.

TECHNICAL DATA

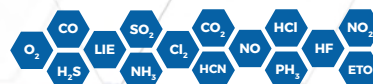
Size	10.5 x 3.7 x 2.1 in. / 26.5 x 9.5 x 5.5 cm
Weight	1.3 lbs / 0.6kg
Temperature:	For LEL, LEL IR, CO and H ₂ S sensors : -40° F to 122° F / -40° C to +50° C
Humidity	5% to 95% relative humidity, non-condensing
Operating range	300 meters / 985 feet (line of sight)
RF Frequency	2.4GHz ISM Band, IEEE 802.15.4 standard compliant
Display	Customised LCD (1" x 1.5" / 72mm x 108mm) with backlight
Alarms	Visual Alarm (2 super-bright red LEDs), Audible Alarm (90dB at 30cm)
Power supply	Disposable Lithium Battery, +3.6V (optional rechargeable external battery for extended run time)
Operating Time	Toxic Gas Sensors: Up to 6 months on internal battery (up to 2 years on external) Flammable Gas Sensor: Up to 21 days on external PowerPak battery LEL IR Gas Sensor: Up to 2 months on internal battery (up to 1 year on external)
Protection class	IP 65
Approvals	ATEX: IM1/II 1G Ex ia I/IC T4 Wireless Frequency: ISM license free band, IEEE 802.15.4 2.4 GHz Wireless Approvals: PCC Part 15, CE R&TTE Radio Module: Supports RM2400A

POWER PAK

External battery to extend the MeshGuard's runtime.

Dimensions: 362 x 260 x 146mm

Weight: 15kg (with four batteries)



GAS DETECTION

Gas	Measuring Range	Resolution
LEL	0 to 100% LEL	1% LEL
H ₂ S	0 to 100 ppm 0 to 1000 ppm	0.1 ppm 1 ppm
CO	0 to 2000 ppm	1 ppm (0 to 2000 ppm)
CO ₂ IR	0 to 5% vol 0 to 100% vol	0.01% vol 0.1% vol
O ₂	0 to 25%	0.10%
NH ₃	0 to 100 ppm	1 ppm
Cl ₂	0 to 10 ppm	0.1 ppm
SO ₂	0 to 20 ppm 0 to 100 ppm	0.1 ppm 1 ppm
HCN	0 to 50 ppm	0.5 ppm
NO	0 to 250 ppm	0.5 ppm
PH ₃	0 to 250 ppm	0.1 ppm
HCl	0 to 15 ppm	1 ppm
ETO-A	0 to 100 ppm	1 ppm
ETO-B	0 to 10 ppm	0.1 ppm
ETO-C	0 to 500 ppm	10 ppm
NO ₂	0 to 500 ppm	0.1 ppm
HF	0 to 10 ppm	0.1 ppm