

MultiRAE Lite

Wireless Portable Multi-Gas Monitor

The MultiRAE Lite is the optimal one-to-six¹-gas monitor for personal protection and leak detection applications. The MultiRAE Lite is available in pumped and diffusion versions and features the broadest selection of sensor options in its class. The MultiRAE Lite can be configured to exactly meet the detection needs and compliance requirements of various countries, industries, and applications.

The MultiRAE Lite's optional wireless capability improves safety by providing commanders and safety officers real-time access to instrument readings and alarm status from any location for better situational awareness and faster incident response.



Confined space testing with the MultiRAE Lite

APPLICATIONS

- Personal protection and multi-gas leak detection in industries such as:
- Chemical
- Food and beverage
- Oil and gas (downstream)
- Pharmaceutical
- Telecommunications
- Wastewater treatment
- Fire overhaul



- Available in pumped and diffusion versions
- Highly versatile and customizable
- Man Down Alarm with real-time remote wireless notification
- Easy maintenance with replaceable sensors, pump, and plug-and-play battery
- Fully automatic bump testing and calibration with AutoRAE 2

FEATURES & BENEFITS

- Wireless access to real-time instrument readings and alarm status from any location
- Unmistakable five-way local and remote wireless notification of alarm conditions including Man Down Alarm²
- Over 25

 interchangeable sensor options, including PID⁴
 for VOCs, NDIR5 and catalytic for combustibles, and NDIR for CO₂
- Intelligent sensors store calibration data, so they can be swapped in the field⁶
- Large graphical display with easy-to-use, icon-driven user interface
- Continuous datalogging (6 months for 5 sensors, 24x7)
- Device Management with Honeywell SafetySuite

MultiRAE Lite Specifications

INSTRUMENT SPECIFICATION	NS ⁷		
SIZE	- Pumped model: 7.6" H x 3.8" W x 2.6" D (193 x 96.5 x 66 mm)		
	- Diffusion model: 6.9" x 3.8" x 2.2" (175 x 96.5 x 56 mm)		
WEIGHT	- Pumped model: 31 oz (880 g) - Diffusion model: 26.8 oz (760g)		
05110000	Over 25 intelligent interchangeable field-replaceable sensors including PID for VOCs,		
SENSORS	electrochemical sensors for toxic gases and oxygen, combustible LEL and NDIR		
DATTEDY OPTIONS	sensors, and CO ₂ NDIR sensor		
BATTERY OPTIONS, RUNTIME ⁸ AND RECHARGE	- Rechargeable Li-ion ~12-hr. (pumped)/18-hr. (diffusion) runtime, < 6-hr. recharge time - Extended duration Li-ion ~18-hr. (pumped)/28-hr. (diffusion) runtime, < 9-hr. recharge time		
TIME	- Extended duration Li-ion ~18-in. (pumped)/28-in. (diffusion) runtime, < 9-in. recharge time - Alkaline adapter with 4 x AA batteries ~6-hr. (pumped)/8-hr. (diffusion) runtime		
DISPLAY	Monochrome graphical LCD display (128 x 160) with backlighting. Automatic screen "flip" feature		
2101 2111	-Real-time reading of gas concentrations; PID measurement gas and correction factor; Man		
	Down Alarm on/off; visual compliance indicator; battery status; datalogging on/off; wireless on/		
DISPLAY READOUT	off and reception quality.		
	-STEL, TWA, peak, and minimum values		
KEYPAD BUTTONS	Automatic with AutoRAE 2 Test and Calibration System3 or manual		
SAMPLING	Built-in pump or diffusion		
CALIBRATION	Automatic with AutoRAE 2 Test and Calibration System or manual		
	Wireless remote alarm notification; audible (95 dB @ 30 cm), vibration, visible (flashing bright		
ALARMS	red LEDs), and on-screen indication of alarm conditions		
	- Man Down Alarm with pre-alarm and real-time remote wireless notification ²		
DATALOGGING	Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7)		
	- User-configurable datalogging intervals (from 1 to 3,600 seconds) - Data download and instrument set-up and upgrades on PC via desktop charging and PC comm.		
COMMUNICATION AND	cradle, travel charger, or AutoRAE 2 Automatic Test and Calibration System ³		
DATA DOWNLOAD	- Wireless data and alarm status transmission via built-in RF modem (optional)		
WIRELESS NETWORK	ProRAE Guardian Real-Time Wireless Safety System or EchoView Host-based Closed-Loop System		
WINEEEGO NETWORK	MultiRAE Lite to RAELink3 [Z1] Mesh modem ~330 feet (100 meters)		
WIRELESS RANGE (TYPICAL)			
	MultiRAE Lite to Wi-Fi Access Point - 330 feet (100 meters)		
OPERATING TEMPERATURE	-4° to 122°F (-20° to 50°C)		
HUMIDITY	0% to 95% relative humidity (non-condensing) IP-65 (pumped): IP-67 (diffusion) ingress protection rating		
DUST AND WATER			
RESISTANCE			
	CSA: Class I, Division 1, Groups A, B, C and D, T4		
	Class II, Division 1, Groups E, F, GT85°C		
	ATEX: 0575 II 1G Ex ia IIC T4 Ga 2G Ex ia d IIC T4 Gb with IR Sensor installed		
SAFETY CERTIFICATIONS	I M1 Ex ia I Ma		
	IFCEx: Ex ia IIC T4 Ga		
	Ex ia d IIC T4 Gb with IR Sensor installed		
	I M1 Ex ja I Ma		
	IECEx/ANZEx: Ex ia IIC T4 Ga		
	Ex ia d IIC T4 Gb with IR Sensor installed		
	Ex ia I Ma		
EMC/RFI ⁸	EMC directive: 2004/108/EC		
PERFORMANCE TESTS	LEL CSA C22.2 No. 152; ISA-12.13.01		
LANGUAGES	Arabic, Chinese, Czech, Danish, Dutch, English, French, German, Indonesian, Italian,		
	Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish		
	- Four years on Liq O₂ sensors		
WARRANTY	- Three years on CO and H ₂ S sensors		
	- Two years on non-consumable components and catalytic LEL sensors - One year on all other sensors, pump, battery, and other consumable parts		
WIRELESS FREQUENCY	ISM license free band. IEEE 802.15.4 Sub 1GHz - Wi-Fi 802.11 b/g		
WIRELESS PREQUENCY WIRELESS APPROVALS	FCC Part 15, CE R&TTE, Others ¹⁰		
RADIO MODULE	Supports RM900A		
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SENSOR SPECIFICATIONS ⁷	RANGE	RESOLUTION
PID SENSORS ⁴		_
VOC 10.6 EV	0 to 1,000 ppm	1 ppm
COMBUSTIBLE SENSORS		
CATALYTIC LEL NDIR (0-100% LEL METHANE) NDIR (0-100% VOL. METHANE) ⁵ CARBON DIOXIDE SENSOR	0 to 100% LEL 0 to 100% LEL 0 to 100% Vol.	1% LEL 1% LEL 0.1% Vol.
CARBON DIOXIDE (CO ₂) NDIR	0 to 50,000 ppm	100 ppm
	0 to 50,000 ppm	100 bbiii
ELECTROCHEMICAL SENSORS	0. 100	4
AMMONIA (NH ₃)	0 to 100 ppm	1 ppm
CARBON MONOXIDE (CO) CARBON MONOXIDE (CO), EXT. RANGE CARBON MONOXIDE (CO), H ₂ -COMP. CARBON MONOXIDE (CO) + HYDROGEN SULFIDE (H ₂ S) COMBO	0 to 500 ppm 0 to 2,000 ppm 0 to 2,000 ppm 0 to 500 ppm 0 to 200 ppm	1 ppm 10 ppm 10 ppm 1 ppm 0.1 ppm
CHLORINE (CL ₂)	0 to 50 ppm	0.1 ppm
CHLORINE DIOXIDE (CLO ₂)	0 to 1 ppm	0.03 ppm
ETHYLENE OXIDE (ETO-A) ETHYLENE OXIDE (ETO-B) ETHYLENE OXIDE (ETO-C), EXT. RANGE ⁹	0 to 100 ppm 0 to 10 ppm 0 to 500 ppm	0.5 ppm 0.1 ppm 10ppm
FORMALDEHYDE (HCHO)	0 to 10 ppm	0.05 ppm
HYDROGEN (H ₂) ⁹ HYDROGEN CYANIDE (HCN)	0 to 1,000 ppm 0 to 50 ppm	10ppm 0.5 ppm
HYDROGEN SULFIDE (H ₂ S) HYDROGEN SULFIDE (H ₂ S), EXT. RANGE ⁹	0 to 100 ppm 0 to 1,000 ppm	0.1 ppm 1 ppm
METHYL MERCAPTAN (CH ₃ -SH)	0 to 10 ppm	0.1 ppm
NITRIC OXIDE (NO)	0 to 250 ppm	0.5 ppm
NITROGEN DIOXIDE (NO ₂)	0 to 20 ppm	0.1 ppm
OXYGEN (O ₂) OXYGEN (LIQ O ₂)	0 to 30% Vol. 0 to 30% Vol.	0.1% Vol. 0.1% Vol.
PHOSPHINE (PĤ ₃) PHOSPHINE H (PH ₃ H)	0 to 20 ppm 0 to 20 ppm	0.1 ppm 0.1 ppm
SULFUR DIOXIDE (SO ₂)	0 to 20 ppm	0.1 ppm

- ¹ A two-gas combination sensor is required for a 6-gas configuration.
- ² Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission.
- ³ AutoRAE 2 supports the MultiRAE Lite pumped version only.
- ⁴ PID sensor requires a pumped configuration.
- ⁵ NDIR combustible sensors require a pumped configuration in CSA countries.
- $^{\rm 6}\,$ RAE Systems recommends calibrating sensors on installation.
- ⁷ Specifications are subject to change.
- ⁸ Specification for non-wireless monitors.
- ⁹ Supported in MultiRAE Lite Diffusion only.
- $^{\rm 10}$ Please contact RAE Systems for specific wireless approvals

ORDERING INFORMATION (MODELS: PGM-6208 and PGM-6208D)

- Wireless² and non-wireless configurations are available
- Refer to the Portables Pricing Guide for part numbers for monitors, accessories, sampling and calibration kits, gas, sensors, and replacement parts

Device Management with **Honeywell SafetySuite**





