



## **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 Alarm<sup>2</sup>
- Over 25

   interchangeable sensor options, including PID<sup>4</sup>
   for VOCs, NDIR5 and catalytic for combustibles, and NDIR for CO<sub>2</sub>
- Intelligent sensors store calibration data, so they can be swapped in the field<sup>6</sup>
- 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	$VS^7$		
	- Pumped model: 7.6" H x 3.8" W x 2.6" D (193 x 96.5 x 66 mm)		
SIZE	- 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)		
	Over 25 intelligent interchangeable field-replaceable sensors including PID for VOCs,		
SENSORS	electrochemical sensors for toxic gases and oxygen, combustible LEL and NDIR		
	sensors, and CO <sub>2</sub> NDIR sensor		
BATTERY OPTIONS,	- Rechargeable Li-ion ~12-hr. (pumped)/18-hr. (diffusion) runtime, < 6-hr. recharge time		
RUNTIME <sup>8</sup> AND RECHARGE	- Extended duration Li-ion ~18-hr. (pumped)/28-hr. (diffusion) runtime, < 9-hr. recharge time		
TIME DISPLAY	- Alkaline adapter with 4 x AA batteries ~6-hr. (pumped)/8-hr. (diffusion) runtime		
DISPLAT	Monochrome graphical LCD display (128 x 160) with backlighting. Automatic screen "flip" feature - 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 red LEDs), and on-screen indication of alarm conditions		
ALARMS			
	- Man Down Alarm with pre-alarm and real-time remote wireless notification <sup>2</sup>		
DATALOGGING	Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7)		
DATALOGGING	- User-configurable datalogging intervals (from 1 to 3,600 seconds)		
COMMUNICATION AND	-Data download and instrument set-up and upgrades on PC via desktop charging and PC comm.		
DATA DOWNLOAD	cradle, travel charger, or AutoRAE 2 Automatic Test and Calibration System <sup>3</sup>		
WIDEL FOR METWORK	-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  MultiRAE Lite to RAELink3 [Z1] Mesh modem ~330 feet (100 meters)		
WIRELESS BANGE (TYPICAL)	MultiRAE Lite to RALLINKS (21) Mesh modern ~350 reet (100 meters)		
WINELESS NAME (TITTOAL)	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)		
DUST AND WATER	IP-65 (pumped); IP-67 (diffusion) ingress protection rating		
RESISTANCE	pr-65 (pumped), 12-67 (diffusion) ingress protection rating		
	CSA: Class I, Division 1, Groups A, B, C and D, T4		
	Class II, Division 1, Groups E, F, G T85°C		
	ATEX: 0575 II 1G Ex ia IIC T4 Ga		
	2G Ex ia d IIC T4 Gb with IR Sensor installed		
CAFETY CERTIFICATIONS	I M1 Ex ia I Ma		
SAFETY CERTIFICATIONS	IECEx: Ex ia IIC T4 Ga Ex ia d IIC T4 Gb with IR Sensor installed		
	I M1 Exia 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 <sup>8</sup>	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,		
LANGUAGES	Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish		
	- Four years on Liq O <sub>2</sub> sensors		
WARRANTY	- Three years on CO and H <sub>2</sub> S sensors		
	- Two years on non-consumable components and catalytic LEL sensors		
WIRELESS FREQUENCY	- One year on all other sensors, pump, battery, and other consumable parts		
WIRELESS FREQUENCY WIRELESS APPROVALS	ISM license free band. IEEE 802.15.4 Sub 1GHz - Wi-Fi 802.11 b/g FCC Part 15, CE R&TTE, Others <sup>10</sup>		
RADIO MODULE	Supports RM900A		
NADIO MODULE	Joupports nivious		

SENSOR SPECIFICATIONS <sup>7</sup>	RANGE	RESOLUTION	
PID SENSORS <sup>4</sup>			
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) <sup>5</sup>	0 to 100% LEL 0 to 100% LEL 0 to 100% Vol.	1% LEL 1% LEL 0.1% Vol.	
CARBON DIOXIDE SENSOR			
CARBON DIOXIDE (CO <sub>2</sub> ) NDIR	0 to 50,000 ppm	100 ppm	
ELECTROCHEMICAL SENSORS			
AMMONIA (NH <sub>3</sub> )	0 to 100 ppm	1 ppm	
CARBON MONOXIDE (CO) CARBON MONOXIDE (CO), EXT. RANGE CARBON MONOXIDE (CO), $\mathrm{H_2}\text{-}\mathrm{COMP}$ . CARBON MONOXIDE (CO) + HYDROGEN SULFIDE ( $\mathrm{H_2}\mathrm{S}$ ) 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 <sub>2</sub> )	0 to 50 ppm	0.1 ppm	
CHLORINE DIOXIDE (CLO <sub>2</sub> )	0 to 1 ppm	0.03 ppm	
ETHYLENE OXIDE (ETO-A) ETHYLENE OXIDE (ETO-B) ETHYLENE OXIDE (ETO-C), EXT. RANGE <sup>9</sup>	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 <sub>2</sub> ) <sup>9</sup> HYDROGEN CYANIDE (HCN) HYDROGEN SULFIDE (H <sub>2</sub> S) HYDROGEN SULFIDE (H <sub>2</sub> S), EXT. RANGE <sup>9</sup>	0 to 1,000 ppm 0 to 50 ppm 0 to 100 ppm 0 to 1,000 ppm	10ppm 0.5 ppm 0.1 ppm 1 ppm	
METHYL MERCAPTAN (CH <sub>3</sub> -SH)	0 to 10 ppm	0.1 ppm	
NITRIC OXIDE (NO)	0 to 250 ppm	0.5 ppm	
NITROGEN DIOXIDE (NO <sub>2</sub> )	0 to 20 ppm	0.1 ppm	
OXYGEN (O <sub>2</sub> ) OXYGEN (LIQ O <sub>2</sub> )	0 to 30% Vol. 0 to 30% Vol.	0.1% Vol. 0.1% Vol.	
PHOSPHINE (PH <sub>3</sub> ) PHOSPHINE H (PH <sub>3</sub> H)	0 to 20 ppm 0 to 20 ppm	0.1 ppm 0.1 ppm	
SULFUR DIOXIDE (SO <sub>2</sub> )	0 to 20 ppm	0.1 ppm	

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

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

- Wireless<sup>2</sup> 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** 





honeywellanalytics.com/SafetySuite



