

# MultiRAE LITE

## Wireless Portable Multi-Gas Monitor

The MultiRAE Lite is the optimal one-to-six<sup>1</sup>-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.



### 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



Confined space testing with the MultiRAE Lite

### EASE & FLEXIBILITY

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

## FEATURES AND BENEFITS



Wireless access to real-time instrument readings and alarm status from any location



Five-way local and remote wireless notification of alarm conditions including Man Down Alarm<sup>3</sup>



Interchangeable sensor options, including PID<sup>4</sup> for VOCs, NDIR<sup>5</sup> 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>5</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 SPECIFICATIONS <sup>7</sup>	
SIZE	• Pumped model: 7.6 in H x 3.8 in W x 2.6 in D [193 mm x 96.5 mm x 66 mm] • Diffusion model: 6.9 in x 3.8 in x 2.2 in [175 mm x 96.5 mm x 56 mm]
WEIGHT	• Pumped model: 31 oz [880 g] • Diffusion model: 26.8 oz [760g]
SENSORS	Intelligent interchangeable field-replaceable sensors
BATTERY OPTIONS, RUNTIME <sup>9</sup> AND RECHARGE TIME	• 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 • 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 • Real-time reading of gas concentrations and correction factor; Man Down Alarm on/off; visual compliance indicator; instrument components' status
DISPLAY READOUT	• STEL, TWA, peak, and minimum values
KEYPAD BUTTONS	Automatic with AutoRAE 2 Test and Calibration System <sup>4</sup> or manual
SAMPLING	Built-in pump or diffusion
CALIBRATION	Automatic with AutoRAE 2 Test and Calibration System or manual
ALARMS	Wireless remote alarm notification; audible (95 dB @ 30 cm), vibration, visible (flashing bright red LEDs), and on-screen indication of alarm conditions • Man Down Alarm with pre-alarm and real-time remote wireless notification <sup>3</sup> Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7) • User-configurable datalogging intervals (from 1 to 3,600 seconds)
DATALOGGING	
COMMUNICATION AND DATA DOWNLOAD	• Download data and upload instrument set-up from PC through charging cradle or using BLE module and dedicated APP • Wireless data and alarm status transmission via built-in RF modem (optional)
WIRELESS NETWORK	Mesh RAE Systems Dedicated Wireless Network
WIRELESS NETWORK (TYPICAL)	Up to 650 ft [200m] for sub-1GHz Mesh Radio, Up to 330 ft [100m] for Wi-Fi and RAElink3 Mesh Modem, Up to 15 ft [5m] for BLE
OPERATING TEMPERATURE	-4°F to 122°F [-20°C to 50°C]
HUMIDITY	0% to 95% relative humidity (non-condensing)
DUST AND WATER RESISTANCE	IP65 (pumped); IP67 (diffusion) ingress protection rating
SAFETY CERTIFICATIONS	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 I M1 Ex ia I Ma Ex ia IIC T4 Ga Ex ia d IIC T4 Gb with IR sensor installed I M1 Ex ia 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, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish • Four years on Liq O <sub>2</sub> sensors • Three years on CO and H <sub>2</sub> S sensors • Two years on non-consumable components and catalytic LEL sensors • One year on all other sensors, pump, battery, and other consumable parts
WARRANTY	
WIRELESS FREQUENCY	ISM license-free band. IEEE 802.15.4 Sub 1 GHz, IEEE 802.11 bands b/n/g 2.4 GHz
WIRELESS APPROVALS	FCC Part 15, CE R&TTE, Others <sup>11</sup>

SENSOR SPECIFICATIONS <sup>7</sup>	RANGE	RESOLUTION
<b>PID SENSORS<sup>4</sup></b>		
VOC 10.6 EV	0 to 1,000 ppm	1 ppm
<b>COMBUSTIBLE SENSORS</b>		
CATALYTIC LEL	0 to 100% LEL	1% LEL
NDIR (0-100% LEL METHANE)	0 to 100% LEL	1% LEL
NDIR (0-100% VOL. METHANE) <sup>6</sup>	0 to 100% Vol.	0.1% Vol.
<b>CARBON DIOXIDE SENSOR</b>		
CARBON DIOXIDE (CO <sub>2</sub> ) NDIR	0 to 50,000 ppm	100 ppm
<b>ELECTROCHEMICAL SENSORS</b>		
AMMONIA (NH <sub>3</sub> )	0 to 100 ppm	1 ppm
CARBON MONOXIDE (CO)	0 to 500 ppm	1 ppm
CARBON MONOXIDE (CO), EXT. RANGE	0 to 2,000 ppm	10 ppm
CARBON MONOXIDE (CO), H <sub>2</sub> -COMP.	0 to 2,000 ppm	10 ppm
CARBON MONOXIDE (CO) <sup>+</sup>	0 to 500 ppm	1 ppm
HYDROGEN SULFIDE (H <sub>2</sub> S) COMBO	0 to 200 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)	0 to 100 ppm	0.5 ppm
ETHYLENE OXIDE (ETO-B)	0 to 10 ppm	0.1 ppm
ETHYLENE OXIDE (ETO-C), EXT. RANGE <sup>10</sup>	0 to 500 ppm	10 ppm
FORMALDEHYDE (HCHO)	0 to 10 ppm	0.05 ppm
HYDROGEN (H <sub>2</sub> ) <sup>10</sup>	0 to 1,000 ppm	10 ppm
HYDROGEN CYANIDE (HCN)	0 to 50 ppm	0.5 ppm
HYDROGEN SULFIDE (H <sub>2</sub> S)	0 to 100 ppm	0.1 ppm
HYDROGEN SULFIDE (H <sub>2</sub> S), EXT. RANGE <sup>10</sup>	0 to 1,000 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> )	0 to 30% Vol.	0.1% Vol.
OXYGEN (LIQ O <sub>2</sub> )	0 to 30% Vol.	0.1% Vol.
PHOSPHINE (PH <sub>3</sub> )	0 to 20 ppm	0.1 ppm
PHOSPHINE H (PH <sub>3</sub> H)	0 to 20 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> When used in line with Honeywell specifications.
- <sup>3</sup> Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission.
- <sup>4</sup> AutoRAE 2 supports the MultiRAE Lite pumped version only.
- <sup>5</sup> PID sensor requires a pumped configuration.
- <sup>6</sup> NDIR combustible sensors require a pumped configuration in CSA countries.
- <sup>7</sup> RAE Systems recommends calibrating sensors on installation.
- <sup>8</sup> Specifications are subject to change.
- <sup>9</sup> Specification for non-wireless monitors.
- <sup>10</sup> Supported in MultiRAE Lite Diffusion only.
- <sup>11</sup> Please contact Honeywell RAE Systems for specific wireless approvals.

Get the full value of our solution by pairing this product with Honeywell Mobile Apps: [www.HoneywellSafety.com](http://www.HoneywellSafety.com)



Device Management with Honeywell SafetySuite



[honeywellanalytics.com/SafetySuite](http://honeywellanalytics.com/SafetySuite)

## ORDERING INFORMATION

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

- Wireless<sup>3</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

### For more information

[www.honeywellanalytics.com](http://www.honeywellanalytics.com)  
[www.HoneywellSafety.com](http://www.HoneywellSafety.com)

### Europe, Middle East, Africa

Life Safety Distribution GmbH  
Tel: 00800 333 222 44 (Freephone number)  
Tel: +41 44 943 4380 (Alternative number)  
Middle East Tel: +971 4 450 5800 (Fixed Gas Detection)  
[gasdetection@honeywell.com](mailto:gasdetection@honeywell.com)

### Americas

Honeywell Analytics Distribution Inc.  
Tel: +1 847 955 8200  
Toll free: +1 800 538 0363  
[detectgas@honeywell.com](mailto:detectgas@honeywell.com)  
Honeywell RAE Systems  
Phone: +1 408 952 8200  
Toll Free: +1 888 723 4800

### Asia Pacific

Honeywell Analytics Asia Pacific  
Tel: +82 (0) 2 6909 0300  
India Tel: +91 124 4752700  
China Tel: +86 10 5885 8788-3000  
[analytics.ap@honeywell.com](mailto:analytics.ap@honeywell.com)

### Technical Services

EMEA: [HAexpert@honeywell.com](mailto:HAexpert@honeywell.com)  
US: [ha.us.service@honeywell.com](mailto:ha.us.service@honeywell.com)  
AP: [ha.ap.service@honeywell.com](mailto:ha.ap.service@honeywell.com)

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