

MultiRAE

Wireless Portable Six-Gas Monitor with Advanced VOC Detection Capability

The MultiRAE is one of the most advanced portable chemical detectors on the market, and delivers the broadest PID sensor range in its class.

It has the versatility to support more than 25 intelligent interchangeable sensor options to fully meet monitoring needs in a variety of applications. These include Industrial Hygiene, Personal Protection, Leak Detection, Confined Space Entry pre-screening where Benzene might be present, and HazMat response.

The MultiRAE's optional wireless capability improves safety by providing commanders and safety managers real-time access to instrument readings and alarm status from any location¹ for better situational awareness and faster incident response. Its Bluetooth® Low Energy (BLE) module and Honeywell Mobile App suite provide enhanced datalogging and connectivity capabilities.



APPLICATIONS

- Industrial hygiene, Personal protection, Leak detection, Confined space entry pre-screening, and Plant shutdown in industries such as:
 - Aviation wing tank entry
 - Chemical
 - Environmental
 - Oil & gas
 - Pharmaceutical
 - Shipping marine
- Hazmat response
- Clandestine drug labs



MultiRAE used for worker exposure monitoring at an oil refinery

EASE & FLEXIBILITY

- Highly versatile and customizable
- Enhanced PID (0 to 5,000 ppm range, 0.1 ppm resolution)
- Benzene-specific measurement up to 200 ppm with 0.1 ppm resolution
- Man Down Alarm with real-time remote wireless notification
- Compliant with MIL-SPEC-810G performance standard
- Fully automatic bump testing and calibration with AutoRAE 2

FEATURES AND BENEFITS



Wireless access to real-time instrument readings and alarm status from any location¹

Multiple connectivity capabilities through multiple wireless module options



Five-way local and remote wireless notification of alarm conditions including Man Down Alarm¹



Intelligent sensors store calibration data, so they can be swapped in the field². Versatile multi-gas and Benzene-specific⁷ modes.



Extensive on-board gas libraries. Largest display in its class



Continuous datalogging (6 months for 5 sensors, 24x7). Device Management with Honeywell SafetySuite

MultiRAE Specifications

INSTRUMENT SPECIFICATIONS ⁴	
SIZE	7.6 in x 3.8 in x 2.6 in D / [193 mm x 96.5 mm x 66 mm]
WEIGHT	31 oz [880 g]
SENSORS	Intelligent interchangeable field-replaceable sensors
BATTERY OPTIONS,	• Rechargeable Li-ion (~12-hour runtime, < 6-hour recharge time)
RUNTIME ⁵ AND	• Extended duration Li-ion (~18-hour runtime, < 9-hour recharge time)
RECHARGE TIME	• Alkaline adapter with 4 x AA batteries (~6-hour runtime)
DISPLAY	Monochrome graphical LCD display (128 x 160) with backlighting, Automatic screen "flip" feature
DISPLAY READOUT	• Real-time reading of gas concentrations and correction factor; Man Down Alarm on/off; visual compliance indicator; instrument components' status
KEYPAD BUTTONS	• STEL, TWA, peak, and minimum values
SAMPLING	3 operation and programming keys (Mode, Y/+, and N/-)
CALIBRATION	Built-in pump. Average flow rate: 250 cc/min. Auto shutoff in low-flow conditions
ALARMS	Automatic with AutoRAE 2 Test and Calibration System or manual
DATALOGGING	Wireless remote alarm notification; audible (95 dB @ 30 cm), vibration, visible (flashing bright red LEDs), and on-screen indication of alarm conditions
COMMUNICATION AND DATA DOWNLOAD	• Man Down Alarm with pre-alarm and real-time remote wireless notification ¹
WIRELESS NETWORK	• Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7)
WIRELESS RANGE (TYPICAL)	• User-configurable datalogging intervals (from 1 to 3,600 seconds)
OPERATING TEMPERATURE	• Download data and upload instrument set-up from PC through charging cradle or using BLE module and dedicated App
HUMIDITY	• Wireless data and alarm status transmission via built-in RF modem (optional)
DUST AND WATER RESISTANCE	RAE Systems Dedicated Wireless Network
SAFETY CERTIFICATIONS	Up to 650 ft [200 m] for sub1 GHz Mesh Radio
EMC/RFI	Up to 330 ft [100 m] for Wi-Fi and RAElink3 Mesh Modem
PERFORMANCE TESTS	Up to 1.5 ft [5m] for BLE
LANGUAGES	-4°F to 122°F (-20°C to 50°C)
WARRANTY	0% to 95% relative humidity (non-condensing)
WIRELESS FREQUENCY	IP65 ingress protection rating
WIRELESS APPROVALS	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 IEC Ex: Ex ia IIC T4 Ga Ex ia d IIC T4 Gb with IR sensor installed I M1 Ex ia I Ma IEC Ex/ANZ Ex: Ex ia IIC T4 Ga Ex ia d IIC T4 Gb with IR sensor installed Ex ia I Ma
WARRANTY	EMC directive: 2004/108/EC
WIRELESS APPROVALS	MIL-STD-810G and 461F compliant. LEL CSA C22.2 No. 152; ISA-12.13.01

ORDERING INFORMATION

(MODEL: PGM-6228)

- Wireless¹ 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
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

Americas

Honeywell Analytics Distribution Inc.
Tel: +1 847 955 8200
Toll free: +1 800 538 0363
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

Technical Services

EMEA: HAexpert@honeywell.com
US: ha.us.service@honeywell.com
AP: ha.ap.service@honeywell.com

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SENSOR SPECIFICATIONS ⁴	RANGE	RESOLUTION
PID SENSORS		
VOC 10.6 EV (EXT. RANGE)	0 to 5,000 ppm	0.1 ppm
VOC 9.8 EV	0 to 2,000 ppm	0.1 ppm
BENZENE-SPECIFIC SNAPSHOT ⁷	0 to 200 ppm	0.1 ppm
COMBUSTIBLE SENSORS		
CATALYTIC LEL	0 to 100% LEL	1% LEL
NDIR (0-100% LEL METHANE)	0 to 100% LEL	1% LEL
NDIR (0-100% VOL. METHANE) ⁵	0 to 100% Vol.	0.1% Vol.
CARBON DIOXIDE SENSOR		
CARBON DIOXIDE (CO ₂) NDIR	0 to 50,000 ppm	100 ppm
ELECTROCHEMICAL SENSORS		
AMMONIA (NH ₃)	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 ₂ -COMP.	0 to 2,000 ppm	10 ppm
CARBON MONOXIDE (CO) + HYDROGEN SULFIDE (H ₂ S) COMBO	0 to 500 ppm	1 ppm
HYDROGEN SULFIDE (H ₂ S)	0 to 200 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)	0 to 100 ppm	0.5 ppm
ETHYLENE OXIDE (ETO-B)	0 to 10 ppm	0.1 ppm
FORMALDEHYDE (HCHO)	0 to 10 ppm	0.05 ppm
HYDROGEN CYANIDE (HCN)	0 to 50 ppm	0.5 ppm
HYDROGEN SULFIDE (H ₂ S)	0 to 100 ppm	0.1 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)	0 to 30% Vol.	0.1% Vol.
OXYGEN (LIQ O ₂)	0 to 30% Vol.	0.1% Vol.
PHOSPHINE (PH ₃)	0 to 20 ppm	0.1 ppm
PHOSPHINE (PH ₃ H)	0 to 20 ppm	0.1 ppm
SULFUR DIOXIDE (SO ₂)	0 to 20 ppm	0.1 ppm

¹ Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission.

² RAE Systems recommends calibrating sensors on installation.

³ A two-gas combination sensor is required for a 6-gas configuration.

⁴ Specifications are subject to change.

⁵ Specification for non-wireless monitors.

⁶ Contact Honeywell RAE Systems for country specific wireless approvals and certificates.

⁷ Requires Benzene RAE-Sep Tube Cartridge.

Get the full value of our solution by pairing this product with Honeywell Mobile Apps.

www.HoneywellSafety.com



Device Management with Honeywell SafetySuite
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