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 prescreening, 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

INCTOLINENT COECIFICATIONIC							
INSTRUMENT SPECIFICATION							
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 TELL TMA peak and minimum values.						
KEKBAR BUTTONO	STEL, TWA, peak, and minimum values						
KEYPAD BUTTONS	3 operation and programming keys (Mode, Y/+, and N/-)						
SAMPLING	Built-in pump. Average flow rate: 250 cc/min. Auto shutoff in low-flow conditions						
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 1						
DATALOCCING	• 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	Download data and upload instrument set-up from PC through charging cradle or using BLE module and dedicated App						
DATA DOWNLOAD	Wireless data and alarm status transmission via built-in RF modem (optional)						
WIRELESS NETWORK	RAE Systems Dedicated Wireless Network						
	Up to 650 ft [200 m] for sub1 GHz Mesh Radio						
WIRELESS RANGE (TYPICAL)	Up to 330 ft [100 m] for Wi-Fi and RAELink3 Mesh Modem Up to 15 ft [5m] for BLE						
OPERATING TEMPERATURE							
HUMIDITY	0% to 95% relative humidity (non-condensing)						
DUST AND WATER	0 % to 33 % retained framinally (fight condensing)						
RESISTANCE	IP65 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 I M1 Ex ia I Ma						
SAFETY CERTIFICATIONS	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						
EMC/RFI	EMC directive: 2004/108/EC						
PERFORMANCE TESTS	MIL-STD-810G and 461F compliant. 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 ₂ 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 1 GHz, IEEE 802.11 bands b/n/g 2.4 GHz						
WIRELESS APPROVALS	FCC Part 15, CE R&TTE, Others ⁶						

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(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

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SENSOR SPECIFICATIONS ⁴	RANGE	RESOLUTION
PID SENSORS	KANGE	RESOLUTION
VOC 10.6 EV (EXT. RANGE)	0 to 5,000 ppm	0.1 ppm
VOC 10.0 EV (EXT. RANGE)	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. CARBON MONOXIDE (CO) +	0 to 2,000 ppm 0 to 500 ppm	10 ppm 1 ppm
HYDROGEN SULFIDE (H ₂ S) COMBO	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

- 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.
- 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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