

## **MultiRAE** Pro

# Wireless Portable Multi-Threat Radiation and Chemical Detector

The MultiRAE Pro is the industry's only portable wireless multi-threat monitor. The MultiRAE Pro's ability to simultaneously detect gamma radiation and toxic industrial chemicals (TICs/TIMs) enables responders to reduce the equipment footprint and achieve greater agility when operating downrange.

The MultiRAE Pro's optional wireless capability improves safety by providing commanders and safety officers real-time access to instrument readings and alarm status from any location<sup>1</sup> for better situational awareness and faster incident response.



CBRN detection with the MultiRAE Pro

#### **APPLICATIONS**

- Civil defense (search and rescue)
- Homeland security
- HazMat response
- Military
- Semiconductor manufacturing
- Environmental



- Detector of choice for government agencies and top HazMat teams worldwide
- Highly versatile and customizable
- Man Down Alarm with real-time remote wireless notification
- Compliant with MIL-STD-810G and 461F performance standards
- Fully automatic bump testing and calibration with AutoRAF 2

#### FFATURES & BENEFITS

- All-in-one monitoring capabilities for radiation, VOCs, oxygen, toxic and combustible gases, up to 6 threat types at a time<sup>2</sup>
- Over 25

   interchangeable sensor options, including parts-per-billion PID and gamma radiation
- Wireless access to real-time instrument readings and alarm status from any location
- Unmistakable five-way local and remote wireless notification of alarm conditions
- Intelligent sensors store calibration data, so they can be swapped in the field<sup>3</sup>
- Large graphical display with easy-to-use, icon-driven user interface
- Device Management with Honeywell SafetySuite

### MultiRAE Pro Specifications

INSTRUMENT SPECIFICATION	NS <sup>4</sup>				
SIZE	7.6" H x 3.8" W x 2.6" D (193 x 96.5 x 66 mm)				
WEIGHT	31 oz (880 g)				
SENSORS	Over 25 intelligent interchangeable field-replaceable sensors including gamma radiation, ppb and ppm PID sensors for VOCs, electrochemical sensors for toxic gases and oxygen, combustible LEL and NDIR sensors, and CO <sub>2</sub> NDIR sensor				
BATTERY OPTIONS, RUNTIME5 AND RECHARGE TIME	- Rechargeable Li-ion (~12-hr. runtime, < 6-hr. recharge time) - Extended duration Li-ion (~18-hr. runtime, < 9-hr. recharge time) - Alkaline adapter with 4 x AA batteries (~6-hr. runtime)				
DISPLAY	Monochrome graphical LCD display (128 x 160) with backlighting Automatic screen "flip" feature				
DISPLAY READOUT	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/off and reception quality.  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; multi-tone 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				
DATALOGGING	Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7)  - User-configurable datalogging intervals (from 1 to 3,600 seconds)				
COMMUNICATION AND DATA DOWNLOAD	Data download and instrument set-up and upgrades on PC via desktop charging and PC comm. cradle, travel charger, or AutoRAE 2 Automatic Test and Calibration System     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				
WIRELESS RANGE (TYPICAL)	MultiRAE Pro to RAELink3 [Z1] Mesh modem ~330 feet (100 meters)  MultiRAE Pro to EchoView Host, RAEMesh Reader or RAEPoint ~660 feet (200 meters)  MultiRAE Pro to 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 RESISTANCE	IP-65 ingress protection rating				
SAFETY CERTIFICATIONS	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 Exia IIC T4 Ga 2G Exia d IIC T4 Gb with IR Sensor installed IM1 Exia I Ma  IECEX: Exia IIC T4 Gb with IR Sensor installed IM1 Exia I Ma  IECEX/ANZEX: Exia IIC T4 Ga Exia d IIC T4 Gb with IR Sensor installed Exia d IIC T4 Gb with IR Sensor installed Exia d IIC T4 Gb with IR Sensor installed				
EMI/RFI5	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				
WARRANTY	<ul> <li>Four years on Liq O₂ sensors</li> <li>Three years on CO and H₂S sensors</li> <li>Two years on non-consumable components and catalytic LEL sensors</li> <li>One year on all other sensors, pump, battery, and other consumable parts</li> </ul>				
WIRELESS FREQUENCY	ISM license free band. IEEE 802.15.4 Sub 1GHz Wi-Fi 802.11 b/g				
WIRELESS APPROVALS	FCC Part 15, CE R&TTE, Others <sup>4</sup>				
RADIO MODULE	Supports RM900A				

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## Honeywell SafetySuite



0 to 20,000

rate)

uRem/h (dose

0 to 5,000 ppm

0 to 2,000 ppm

0 to 100% LEL

0 to 100% LEL

0 to 100% Vol.

0 to 50,000 ppm

0 to 100 ppm

0 to 500 ppm

0 to 2,000 ppm

0 to 2,000 ppm

0 to 500 ppm

0 to 200 ppm

0 to 50 ppm

0 to 1 ppm

0 to 100 ppm

0 to 10 ppm

0 to 10 ppm

0 to 50 ppm

0 to 100 ppm

0 to 10 ppm

0 to 250 ppm

0 to 20 ppm

0 to 30% Vol.

0 to 30% Vol.

0 to 20 ppm

0 to 20 ppm

0 to 20 ppm

<sup>1</sup> Additional equipment and/or software licenses may be required to enable

 $^2\,\mathrm{A}$  two-gas combination sensor is required for a 6-gas configuration. <sup>3</sup> RAE Systems recommends calibrating sensors on installation.

• Wireless<sup>1</sup> and non-wireless configurations are

kits, gas, sensors, and replacement parts

• Refer to the Portables Pricing Guide for part numbers for monitors, accessories, sampling and calibration

remote wireless monitoring and alarm transmission.

<sup>6</sup> Please contact RAE Systems for specific wireless approvals

ORDERING INFORMATION

(MODEL: PGM-6248)

<sup>4</sup> Specifications are subject to change. <sup>5</sup> Specification for non-wireless monitors.

GAMMA

VOC 10.6 EV (EXT. RANGE)

NDIR (0-100% LEL METHANE)

NDIR (0-100% VOL. METHANE)

CARBON MONOXIDE (CO), EXT. RANGE

CARBON MONOXIDE (CO), H<sub>2</sub>-COMP.

HYDROGEN SULFIDE (H<sub>2</sub>S) COMBO

CARBON DIOXIDE (CO2) NDIR

CARBON MONOXIDE (CO)

CARBON MONOXIDE (CO) +

CHLORINE DIOXIDE (CLO<sub>2</sub>)

ETHYLENE OXIDE (ETO-A)

ETHYLENE OXIDE (ETO-B)

FORMALDEHYDE (HCHO)

HYDROGEN CYANIDE (HCN)

HYDROGEN SULFIDE (H2S)

NITROGEN DIOXIDE (NO.)

NITRIC OXIDE (NO)

OXYGEN (O2)

OXYGEN (LÍQ O2)

PHOSPHINE (PH<sub>2</sub>)

available

PHOSPHINE (PH. H)

SULFUR DIOXIDE (SO<sub>2</sub>)

METHYL MERCAPTAN (CH<sub>2</sub>-SH)

VOC 10.6 EV (PPB)

CATALYTIC LEL

AMMONIA (NH<sub>2</sub>)

CHLORINE (CL2)

1cc Csl (Tl)

photodiode

0.1 ppm

10 ppb

1% LEL

1% LEL

0.1% Vol

100 ppm

1 ppm

1 ppm

10 ppm

10 ppm

1 ppm

0.1 ppm

0.1 ppm

0.03 ppm

0.5 ppm

0.1 ppm

0.05 ppm

0.5 ppm

0.1 ppm

0.1 ppm 0.5 ppm

0.1 ppm

0.1% Vol.

0.1% Vol.

0.1 ppm

0.1 ppm

0.1 ppm

scintillator with



honeywellanalytics.com/SafetySuite

Device Management with

#### For more information

www.honeywellanalytics.com www.raesystems.com

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