Honeywell RAE

MultiRAE Pro

Wireless Portable Multi-Threat Radiation and Chemical Detector

The MultiRAE Pro is the industry's only portable wireless multithreat 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 location¹ for better situational awareness and faster incident response.

Key Features

Wireless. Versatile. Proven.

- Device management with Honeywell Sotera™
- All-in-one monitoring capabilities for radiation, VOCs, oxygen, toxic and combustible gases, up to 6 threat types at a time²
- 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 field³
- Large graphical display with easy-to-use, icon-driven user interface

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 AutoRAE 2



MultiRAE Pro Specifications

7.6" H x 3.8" W x 2.6" D (193 x 96.5 x 66 mm)		
31 oz (880 g)		
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 ₂ NDIR sensor		
 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) 		
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/off and reception quality. STEL, TWA, peak, and minimum values 		
3 operation and programming keys (Mode, Y/+, and N/-)		
Built-in pump. Average flow rate: 250 cc/min. Auto shutoff in low-flow conditions		
Automatic with AutoRAE 2 Test and Calibration System or manual		
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		
Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7) - User-configurable datalogging intervals (from 1 to 3,600 seconds)		
 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) 		
ProRAE Guardian Real-Time Wireless Safety System or EchoView Host-based Closed-Loop System		
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)		
-4° to 122°F (-20° to 50°C)		
0% to 95% relative humidity (non-condensing)		
IP-65 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 Exia IIC T4 Ga 2G Exia d IIC T4 Gb with IR Sensor installed IM1 Exia I Ma IECEX: Exia IIC T4 Ga Exia d 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 Exia d IIC T4 Gb with IR Sensor installed		
EMC directive: 2004/108/EC		
MIL-STD-810G and 461F compliant. LEL CSA C22.2 No. 152; ISA-12.13.01		
Arabic, Chinese, Czech, Danish, Dutch, English, French, German, Indonesian, Italian, Japanese Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish		
-		
Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish - Three years on Liq O ₂ sensors - Two years on non-consumable components and catalytic LEL, CO, H ₂ S, and O ₂ sensors		
Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish - Three years on Liq O ₂ sensors - Two years on non-consumable components and catalytic LEL, CO, H ₂ S, and O ₂ sensors - One year on all other sensors, pump, battery, and other consumable parts ISM license free band. IEEE 802.15.4 Sub 1GHz		

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

RAE Systems by Honeywell

Phone: +1 408 952 8200 Toll Free: +1 888 723 4800

Honeywell Industrial Safety

For more information

www.honeywellanalytics.com www.raesystems.com

Technical Services

EMEA: HAexpert@honeywell.com

US: ha.us.service@honeywell.com

AP: ha.ap.service@honeywell.com

Datasheet_MultiRAE_Pro_DS1068_09 04/17- © 2017 Honeywell Analytics

Sensor Specifications ⁴		
Radiation Sensor	Range	Sensor Type
Gamma	0 to 20,000 µRem/h (dose rate)	1cc CsI (TI) scintillator with photodiode
PID Sensors	Range	Resolution
VOC 10.6 eV (Ext. Range) VOC 10.6 eV (ppb)	0 to 5,000 ppm 0 to 2,000 ppm	0.1 ppm 10 ppb
Combustible Sensors	Range	Resolution
Catalytic LEL NDIR (0-100% LEL Methane) NDIR (0-100% Vol. Methane)	0 to 100% LEL 0 to 100% LEL 0 to 100% Vol.	1% LEL 1% LEL 0.1% Vol.
Carbon Dioxide Sensor	Range	Resolution
Carbon Dioxide (CO ₂) NDIR	0 to 50,000 ppm	100 ppm
Electrochemical Sensors	Range	Resolution
Ammonia (NH₃) Ammonia (NH3 HR) Ext. Range	0 to 100 ppm 0 to 500 ppm	1 ppm 1 ppm
Carbon Monoxide (CO) Carbon Monoxide (CO), Ext. Range Carbon Monoxide (CO), H ₂ - comp.	0 to 500 ppm 0 to 2,000 ppm 0 to 2,000 ppm	1 ppm 10 ppm 10 ppm
Carbon Monoxide (CO) + Hydrogen Sulfide (H ₂ S) Combo	0 to 500 ppm 0 to 200 ppm	1 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) Ethylene Oxide (EtO-B)	0 to 100 ppm 0 to 10 ppm	0.5 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) Liq Oxygen (O ₂)	0 to 30% Vol. 0 to 30% Vol.	0.1% Vol. 0.1% Vol.
Phosphine (PH ₃) Phosphine H (PH ₃ H)	0 to 20 ppm 0 to 20 ppm	0.1 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.

^a A two-gas combination sensor is required for a 6-gas configuration. ³ RAE Systems recommends calibrating sensors on installation.

⁴ Specifications are subject to change.
 ⁵ Specification for non-wireless monitors.
 ⁶ Please contact RAE Systems for specific wireless approvals.

Ordering Information (MODEL: PGM-6248)

- 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



honeywellanalytics.com/products/ Honeywell-Sotera



Tel: +82 (0) 2 6909 0300 India Tel: +91 124 4752700 China Tel: +86 10 5885 8788 3000 analytics.ap@honeywell.com

Asia Pacific