MultiRAE LITE

Wireless Portable Multi-Gas Monitor

The MultiRAE Lite is the optimal one-to-six¹-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 multigas 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 notification²
- 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 Alarm³



Interchangeable sensor options, including PID⁴ for VOCs, NDIR5 and catalytic for combustibles, and NDIR for CO₂

Intelligent sensors store calibration data, so they can be swapped in the field⁵



Large graphical display with easy-touse, icon-driven user interface



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



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MultiRAE Lite Specifications

| | Pumned mode | el: 7.6 in H x 3.8 in W x 2.6 in D [193 mm x 96.5 mm x 66 mm] |
|-----------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| SIZE | | lel: 6.9 in x 3.8 in x 2.2 in [175 mm x 96.5 mm x 56 mm] |
| WEIGHT | | el: 31 oz [880 g] |
| WEIGHT | | lel: 26.8 oz [760g] |
| SENSORS | | erchangeable field-replaceable sensors |
| BATTERY OPTIONS, | | Li-ion ~12-hr. (pumped)/18-hr. (diffusion) runtime, < 6-hr. recharge time |
| RUNTIME ⁹ AND RECHARGE | | |
| TIME | | ation Li-ion ~18-hr. (pumped)/28-hr. (diffusion) runtime, < 9-hr. recharge time |
| | | er with 4 x AA batteries ~6-hr. (pumped)/8-hr. (diffusion) runtime |
| DISPLAY | | aphical LCD display (128 x 160) with backlighting. Automatic screen "flip" feature |
| NODE AN DEADOUT | | ding of gas concentrations and correction factor; Man Down Alarm on/off; visua |
| DISPLAY READOUT | | dicator; instrument components' status |
| VENDAD DUTTONO | | eak, and minimum values |
| KEYPAD BUTTONS | | AutoRAE 2 Test and Calibration System ⁴ or manual |
| AMPLING | Built-in pump o | |
| CALIBRATION | | AutoRAE 2 Test and Calibration System or manual |
| | | alarm notification; audible (95 dB @ 30 cm), vibration, visible |
| ALARMS | | red LEDs), and on-screen indication of alarm conditions |
| | | arm with pre-alarm and real-time remote wireless notification ³ |
| DATALOGGING | | alogging (6 months for 5 sensors at 1-minute intervals, 24/7) |
| VAIALUUUIITU | | able datalogging intervals (from 1 to 3,600 seconds) |
| COMMUNICATION AND | Download data | a and upload instrument set-up from PC through charging cradle or using |
| DATA DOWNLOAD | BLE module a | nd dedicated APP |
| DATA DOWNLOAD | • Wireless data | and alarm status transmission via built-in RF modem (optional) |
| WIRELESS NETWORK | Mesh RAE Syste | ms Dedicated Wireless Network |
| WIRELESS NETWORK | Up to 650 ft [2 | 00m] for sub1GHz Mesh Radio, Up to 330 ft [100m] for Wi-Fi |
| TYPICAL) | and RAELink3 N | Mesh Modem, Up to 15 ft [5m] for BLE |
| OPERATING TEMPERATURE | | [-20°C to 50°C] |
| HUMIDITY | 0% to 95% rela | ative humidity (non-condensing) |
| DUST AND WATER | | |
| RESISTANCE | IP65 (pumped) | ; IP67 (diffusion) 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 |
| | ALDE | 2G Ex ia d IIC T4 Gb with IR sensor installed |
| | | I M1 Exia I Ma |
| SAFETY CERTIFICATIONS | IECEx: | Ex ia IICT4 Ga |
| SAFETT CERTIFICATIONS | IEGEX. | Ex ia d IIC T4 Gb with IR sensor installed |
| | | I M1 Ex ia I Ma |
| | IECEx/ANZEx: | |
| | IECEX/ANZEX | |
| | | Ex ia d IIC T4 Gb with IR sensor installed |
| TMC/DEIS | FMC # | Ex ia I Ma |
| EMC/RFI ⁸ | EMC directive: 2 | |
| PERFORMANCE TESTS | | No. 152; ISA-12.13.01 |
| LANGUAGES | | , Czech, Danish, Dutch, English, French, German, Indonesian, Italian, |
| | | an, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish |
| | Four years on | |
| | | n CO and H ₂ S sensors |
| WADDANTY | Three years or | |
| WARRANTY | | non-consumable components and catalytic LEL sensors |
| WARRANTY | • Two years on | non-consumable components and catalytic LEL sensors Il other sensors, pump, battery, and other consumable parts |
| WARRANTY WIRELESS FREQUENCY | • Two years on a | |

ORDERING INFORMATION

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

- Wireless³ 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

| SENSOR SPECIFICATIONS ⁷ | RANGE | RESOLUTION |
|---------------------------------------------------------------|-----------------|------------|
| PID SENSORS ⁴ | | |
| VOC 10.6 EV | 0 to 1,000 ppm | 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) ⁶ | 0 to 100% Vol. | 0.1% Vol. |
| CARBON DIOXIDE SENSOR | | |
| CARBON DIOXIDE (CO ₂) NDIR | 0 to 50,000 ppm | 100 ppm |
| LECTROCHEMICAL 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) + | 0 to 500 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 |
| THYLENE OXIDE (ETO-A) | 0 to 100 ppm | 0.5 ppm |
| THYLENE OXIDE (ETO-B) | 0 to 10 ppm | 0.1 ppm |
| THYLENE OXIDE (ETO-C), EXT. RANGE ¹⁰ | 0 to 500 ppm | 10 ppm |
| ORMALDEHYDE (HCHO) | O to 10 ppm | 0.05 ppm |
| HYDROGEN (H ₂) ¹⁰ | 0 to 1,000 ppm | 10 ppm |
| HYDROGEN CYANIDE (HCN) | 0 to 50 ppm | 0.5 ppm |
| HYDROGEN SULFIDE (H ₂ S) | 0 to 100 ppm | 0.1 ppm |
| HYDROGEN SULFIDE (H ₂ S), EXT. RANGE ¹⁰ | 0 to 1,000 ppm | 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 |
| DXYGEN (O ₂) | 0 to 30% Vol. | 0.1% Vol. |
| OXYGEN (LÍQ O ₂) | 0 to 30% Vol. | 0.1% Vol. |
| PHOSPHINE (PH ₃) | 0 to 20 ppm | 0.1 ppm |
| PHOSPHINE H (PH ₃ H) | 0 to 20 ppm | 0.1 ppm |
| SULFUR DIOXIDE (SO ₂) | 0 to 20 ppm | 0.1 ppm |

- A two-gas combination sensor is required for a 6-gas configuration.
- When used in line with Honeywell specifications.
- 3 Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission.
- AutoRAE 2 supports the MultiRAE Lite pumped version only.
- 5 PID sensor requires a pumped configuration.
- NDIR combustible sensors require a pumped configuration in CSA countries.
- ⁷ RAE Systems recommends calibrating sensors on installation.
- 8 Specifications are subject to change.
- ⁹ Specification for non-wireless monitors
- ¹⁰Supported in MultiRAE Lite Diffusion only.
- ¹¹ 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





Device Management with Honeywell SafetySuite



honeywellanalytics.com/SafetySuite

www.honeywell-indonesia.com www.marinemaju.com



MultiRAE PRO

Wireless Portable Multi-Threat Radiation and Chemical Detector

The MultiRAE Pro is one of 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 location¹ for better situational awareness and faster incident response.



APPLICATIONS

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



CBRN detection with the MultiRAE Pro

EASE & FLEXIBILITY

- Detector of choice for government agencies and top HazMat teams worldwide
- · Highly versatile and customizable
- Man Down Alarm with real-time remote wireless notification²
- Compliant with MIL-STD-810G and 461F performance standards
- Fully automatic bump testing and calibration with AutoRAE 2

FEATURES AND BENEFITS



All-in-one monitoring capabilities for radiation, VOCs, oxygen, toxic, and combustible gases, up to 6 threat types at a time³

Large graphical display with easy-touse, icon-driven user interface. Device Management with Honeywell SafetySuite



Over 25 interchangeable sensor options, including parts-perbillion PID and gamma radiation



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



Five-way local and remote wireless notification of alarm conditions. Intelligent sensors store calibration data, so they can be swapped in the field⁴



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MultiRAE Pro Specifications

| INSTRUMENT SPECIFICATIO | NS ⁴ | |
|---------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIZE | 7.6 in H x 3.8 in V | V x 2.6 in D [193 mm x 96.5 mm x 66 mm] |
| WEIGHT | 31 oz [880 g] | |
| SENSORS | Intelligent interc | hangeable field-replaceable sensors |
| BATTERY OPTIONS, RUNTIME5 AND RECHARGE TIME | Extended durati Alkaline adapter | i-ion (~12-hour runtime, < 6-hour recharge time) on Li-ion (~18-hour runtime, < 9-hour recharge time) with 4 x AA batteries (~6-hour runtime) |
| DISPLAY | Automatic scree | |
| DISPLAY READOUT | Man Down Alarr | ng of gas concentrations and correction factor; n on/off; visual compliance indicator; Instrument components' status k, and minimum values |
| KEYPAD BUTTONS | 3 operation and p | programming keys (Mode, Y/+, and N/-) |
| SAMPLING | Built-in pump. Av | rerage flow rate: 250 cc/min. Auto shutoff in low-flow conditions |
| CALIBRATION | Automatic with A | utoRAE 2 Test and Calibration System or manual |
| ALARMS | Wireless remote visible (flashing) | e alarm notification; multi-tone audible (95 dB @ 30 cm), vibration, bright red LEDs), and on-screen indication of alarm conditions m with pre-alarm and real-time remote wireless notification |
| DATALOGGING | Continuous data | ologging (6 months for 5 sensors at 1-minute intervals, 24/7) ele datalogging intervals (from 1 to 3,600 seconds) |
| COMMUNICATION AND DATA DOWNLOAD | BLE module and | and upload instrument set-up from PC through charging cradle or using d dedicated App d alarm status transmission via built-in RF modem (optional) |
| WIRELESS NETWORK | | ns Dedicated Wireless Network |
| WIRELESS RANGE (TYPICAL) | | O m)for sub 1 GHz Mesh Radio, O m)for Wi-Fi and RAELink3 Mesh Modem, for BLE |
| OPERATING TEMPERATURE | -4°F to 122°F (-2 | 2.0°C to 50°C) |
| HUMIDITY | 0% to 95% relati | ve humidity (non-condensing) |
| DUST AND WATER RESISTANCE | IP65 ingress pro | tection rating |
| SAFETY CERTIFICATIONS | CSA: ATEX: IECEx: IECEx/ANZEx: | Class I, Division 1, Groups A, B, C, and D, T4 Class II, Division 1, Groups E, F, G, T85°C 0575 II 1G Exia II IC T4 Ga 2G Exia d II C T4 Gb with IR Sensor installed IM1 Exia I Ma Exia II C T4 Ga Exia d II C T4 Gb with IR Sensor installed I M1 Exia I Ma Exia II IC T4 Gb with IR Sensor installed Exia d II C T4 Ga Exia d II C T4 Gb with IR Sensor installed Exia d II C T4 Gb with IR Sensor installed Exia II Ma |
| EMI/RFI ⁶ | EMC directive: 20 | |
| PERFORMANCE TESTS | | and 461F compliant. LEL CSA C22.2 No. 152; ISA-12.13.01 |
| | | Czech, Danish, Dutch, English, French, German, Indonesian, Italian, Japanese, |
| LANGUAGES | | an, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish |
| WARRANTY | • Two years on n | Liq O ₂ sensors CO and H ₂ S sensors on-consumable components and catalytic LEL sensors Lother sensors, pump, battery, and other consumable parts |
| WIRELESS FREQUENCY | | and. IEEE 802.15.4 Sub 1 GHz, IEEE 802.11 bands b/n/g 2.4 GHz |
| WIRELESS APPROVALS | FCC Part 15, CE F | • |

| 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

| SENSOR SPECIFICATIONS ⁵ | | |
|---------------------------------------------|--------------------------------------|-------------------------------------------------|
| RADIATION SENSORS | RANGE | SENSOR TYPE |
| GAMMA | 0 to 20,000 µRem/h (dose rate) | 1cc Csl (Tl) scintillator with photodiode |
| PID SENSORS | RANGE | RESOLUTION |
| VOC 10.6 EV (EXT. RANGE) | 0 to 5,000 ppm | 0.1 ppm |
| VOC 10.6 EV (PPB) | 0 to 2,000 ppm | 10 ppb |
| VOC 9.8 EV | 0 to 2,000 ppm | 0.1 ppm |
| BENZENE-SPECIFIC SNAPSHOT ⁸ | 0 to 200 ppm | 0.1 ppm |
| COMBUSTIBLE SENSORS | RANGE | RESOLUTION |
| CATALYTIC LEL | 0 to 100% LEL | 1% LEL |
| NDIR (0-100% LEL METHANE) | 0 to 100% LEL | 1% LEL |
| NDIR (0-100% VOL. METHANE) | 0 to 100% Vol. | 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 (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) + | 0 to 500 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 (LÍQ 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.

Device Management with Honeywell SafetySuite





honeywellanalytics.com/SafetySuite

www.honeywell-indonesia.com www.marinemaju.com



²When used in line with Honeywell specifications.

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

⁴ Honeywell RAE Systems recommends calibrating sensors on installation.

⁵Specifications are subject to change.

⁶Specification for non-wireless monitors.

⁷ Please contact Honeywell RAE Systems for specific wireless approvals.

⁸ Requires Benzene RAE-Sep Tube Cartridge.



MultiRAE Benzene

Wireless Portable Six-Gas Monitor With Benzene-Specific Measurement

The MultiRAE Benzene is the only gas monitor that includes up to 6-gas¹ detection and real-time wireless capability, plus benzene-specific measurement.

The MultiRAE Benzene monitor combines the ability to make quick benzene-specific assessment ("snapshot") measurements² with the advantages of a versatile multi-gas monitor that can support approximately 20 intelligent interchangeable sensor options.

Its optional wireless capability improves safety by providing real-time access to instrument readings and alarm status from any location, which delivers better situational awareness and faster incident response.

The MultiRAE Benzene monitor's unique features make it an ideal instrument for industrial applications, from confined space entry pre-screening during plant maintenance to personal protection, leak detection and refinery downstream monitoring.



Multi RAE Benzene used for leak detection

APPLICATIONS

- · Confined space entry pre-screening
- · Plant Shutdown (downstream)
- Personal Protection
- · Leak detection





- · Unique instrument for multiple applications
- · Highly versatile and customizable
- Benzene-specific measurement up to 200 ppm with 0.1 ppm resolution
- Man Down Alarm with real-time remote wireless notification
- Fully automatic bump testing and calibration with Auto RAE 2

FEATURES & BENEFITS

- Versatile multi-gas and Benzene-specific²
 - readings and alarm status from any location³
- Unmistakable five-way local and remote

 notification of ditions,
 Man Down
 - Ataiiii
- Intelligent sensors store calibration data, so they can be swapped in the field4
- Continuous data logging (up to 6 months for 5 sensors) and snapshot datalogging capabilities

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MultiRAE Benzene Specifications

| 7.6° H. 2.9° W. 2.6° D.(102 v.06 E.v.66 mm) without DAE SanTube Contrides |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.6" H x 3.8" W x 2.6" D (193 x 96.5 x 66 mm) without RAE SepTube Cartridge |
| 31oz (880g) without RAE SepTube Cartridge |
| More than 20 intelligent interchangeable field-replaceable sensors, including PID sensor for VOCs, electrochemical sensors for toxic gases, and oxygen and LEL 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; non-specific PID measurement; 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 Benzene-specific snapshot measurement ² |
| 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; 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 ³ |
| Continuous datalogging (6 months for 5 sensors at 1-minute intervals) - User-configurable datalogging intervals (from 1 to 3,600 seconds) - Snapshot datalogging |
| Data download, instrument set-up and upgrades on PC via desktop charging and PC communications 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 to RAELink3 [Z1] Mesh modem ~330 feet (100 meters) MultiRAE to EchoView Host, RAEMesh Reader or RAEPoint ~660 feet (200 meters) MultiRAE to Wi-Fi Access Point ~330 feet (100 meters) |
| -4° to 122° F (-20° to 50° C) |
| 0% to 95% relative humidity (non-condensing) |
| P-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: |
| EMC directive: 2004/108/EC |
| LEL CSA C22.2 No. 152; ISA-12.13.01 |
| Arabic, Chinese, Czech, Danish, Dutch, English, French, German, Indonesian, Italian, Japanese, Korean, Norwe- ajan, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish |
| Four years on Liq O ₂ sensors 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 |
| SM license-free band. IEEE 802.15.4 Sub 1GHz Wi-Fi 802.11 b/g |
| |
| FCC Part 15, CE R&TTE, Others ⁵ |
| |

| SENSOR SPECIFICATIONS | RANGE | RESOLUTION |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------|
| PID SENSORS | | |
| OC 9.8EV | 0 to 2,000 ppm | 0.1 ppm |
| BENZENE-SPECIFIC SNAPSHOT ² | 0 to 200 ppm | 0.1 ppm |
| COMBUSTIBLE SENSORS | | |
| CATALYTIC LEL | 0 to 100% LEL | 1% LEL |
| LECTROCHEMICAL SENSORS | | |
| MMONIA (NH ₃) | 0 to 100 ppm | 1 ppm |
| CARBON MONOXIDE (CO) CARBON MONOXIDE (CO), EXT. RANGE CARBON MONOXIDE (CO), H ₂ -COMP. CARBON MONOXIDE (CO) + HYDROGEN SULFIDE (H ₂ S) COMBO | 0 to 500 ppm 0 to 2,000 ppm 0 to 2,000 ppm 0 to 500 ppm 0 to 200 ppm | 1 ppm 10 ppm 10 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 |
| THYLENE OXIDE (ETO-A) THYLENE 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) JIQ 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 |

- A two-gas combination sensor is required for a 6-gas configuration.
- ² Requires Benzene RAE-Sep Tube Cartridge
- 3 Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission.
- 4 RAE Systems recommends calibrating sensors on installation.
- $^{5}\ \ Contact\ RAE\ Systems\ for\ country-specific\ wireless\ approvals\ and\ certificates.$

Specifications are subject to change.

ORDERING INFORMATION

- Wireless³ and non-wireless configurations are
- Refer to the Portables Pricing Guide for part numbers for monitors, consumables (RAE-Sep Tube Cartridge), accessories, sampling and calibration kits, gas, sensors, and replacement parts