GAS DETECTION: PORTABLES

BW Single & Multi-Gas Accessories

ToxiRAE Pro Series

WIRELESS

The ToxiRAE Pro is the industry's first and largest family of wireless personal single gas monitors. ToxiRAE Pro instruments reliably and accurately monitor a full range of common toxic industrial gases (ToxiRAE Pro), volatile organic compounds (ToxiRAE Pro PID), combustible gases (ToxiRAE Pro LEL), and now carbon dioxide (**NEW** ToxiRAEPro CO2).

Features:
- Anytime, anywhere access to real-time instrument readings and alarm status via ProRAE Guardian Wireless Safety System or EchoView Portable Controller
- Mandown alarm
- Five-way alarm notification including 4 local alarms on the instrument + wireless remote alarm transmission to remote observer(s)
- Rugged IP-54 (PID) and IP-65 (EC and LEL) water and dust ingress protection rating
- 3 months of continuous datalogging
- Rechargeable Li-ion battery
- User-replaceable battery, filter, sensor, and PID fan
- Fully automated calibration with AutoRAE 2
- All PC communications, charging accessories, and protective rubber boot included
- Intrinsically safe

Ordering Information

Description	Part Number
ToxiRAE Pro (PGM-1860)	
Oxygen Sensor / Datalogging / Wireless	G02-BE14-100
Carbon Monoxide (CO; up to 500 ppm) Sensor / Datalogging / Wireless	G02-B214-100
Hydrogen Sulfide (H2S; up to 100 ppm) Sensor / Datalogging / Wireless	G02-B114-100
Sulfur Dioxide (SO2) Sensor / Datalogging / Wireless	G02-B314-100
ToxiRAE Pro PID Monitor (PGM-1800)	
10.6 eV PID (0.1 - 2,000 ppm range, 0.1 ppm res.) / Datalogging / Wireless	G02-B004-000
10.6 eV PID (1 - 1,000 ppm range, 1 ppm res.) / No Datalogging / Wireless	G02-B014-000
ToxiRAE Pro LEL Monitor (PGM-1820)	
ToxiRAE Pro LEL / Datalogging / Wireless Single-pack	G02-B034-000

Call for more configurations.

Available sensors include: CH3-SH, Cl2, ClO2, CO (HR), CO, CO comp. to H2, COCl2, EtO-A, EtO-B, EtO-C (HR), H2, H2S (HR), H2S, HCl, HCN, HF, NH3, NO, NO2, O2, PH3, PH3 (HR), and SO2

ToxiRAE Pro CO2

NEW   WIRELESS

The ToxiRAE Pro CO2 is the world's first wireless personal carbon dioxide gas monitor. The ToxiRAE Pro CO2 takes worker protection to the next level by providing safety professionals wireless access to real-time instrument readings and alarm status (including man down alarm) from any location for better visibility and faster response. The ToxiRAE Pro CO2 promptly detects and accurately monitors carbon dioxide in concentrations from 0 to 50,000ppm.

Features:
- Wireless access to real-time instrument readings and alarm status from any location (including man down alarm)
- Unmistakable five-way local and remote wireless notification of alarm conditions
- Largest display in its class
- Reliable, rugged
- Policy enforcement features (option)
- Continuous datalogging
- Easy to use
- User-replaceable sensor, filter, and Lithium–Ion battery
- Fully automated bump testing and calibration with AutoRAE 2

Ordering Information

Description	Part Number
NDIR Sensor (200 - 50,000 ppm, 100 ppm res.) / Datalogging / Wireless (90 MHz)	GO2-0009-000
NDIR Sensor (200 - 50,000 ppm, 100 ppm res.) / Datalogging / Non-Wireless	GO2-0007-000

AutoRAE 2 Calibration Station
see page 31 for details

ToxiRAE 3

The ToxiRAE 3 is a full-featured single-gas monitor that offers unequaled cost of ownership value. It is compatible with the AutoRAE Lite bump and calibration station. STEL, TWA, low, and high alarms can also be recorded. The detector is warrantied for 2 years and maintenance free with replaceable battery.

Features:
- 0.1 ppm H2S resolution, and high-range CO available.
- Full records when used with AutoRAE Lite
- Intuitive, simple-to-operate user interface
- IP-67 water-proof and dust resistant

Ordering Information

Part Number	Description	Range
G01-0102-000	Hydrogen Sulfide	0-100 ppm
G01-0101-000	Carbon Monoxide	0-500 ppm
G01-0103-000	Carbon Monoxide	0-1999 ppm

ToxiRAE II

The ToxiRAE II is a reusable single-gas personal protection monitor that provides continuous readouts of toxic gas concentrations, STEL, TWA, and Peak values, as well as high, low, TWA, and STEL alarms at a price point competitive with many disposable detectors. It is small enough to be clipped onto a hard hat, shirt pocket, or belt, and is used in applications such as refineries, oil production, plant maintenance/turnarounds, industrial safety, and pulp and paper production.

Features:
- Simple calibration
- User-adjustable alarms
- 2 years or 730 alarm-minutes of operational life

Ordering Information

Part Number	Description	Range
045-0518-000	Ammonia	0-50 ppm
045-0512-000	Carbon Monoxide	0-500 ppm
045-0512-200	Carbon Monoxide	0-2000ppm
045-0516-000	Chlorine	0-10 ppm
045-0523-000	Chlorine Dioxide	0-1 ppm
045-0517-000	Hydrogen Cyanide	0-100 ppm
045-0511-000	Hydrogen Sulfide	0-100 ppm
045-0514-000	Nitric Oxide	0-250 ppm
045-0515-000	Nitrogen Dioxide	0-20 ppm
045-0006-000	Oxygen	0-30%
045-0519-000	Phosphine	0-5 ppm
045-0513-000	Sulfur Dioxide	0-20 ppm

AutoRAE Lite for ToxiRAE 3

The AutoRAE Lite high-speed, low-operating-cost bump test and calibration station stores data in a text file that can be opened by any spreadsheet or editor. Providing the lowest cost of ownership, the AutoRAE Lite allows you to bump test 700 monitors on one set of batteries. In addition, the AutoRAE Lite operates on a low-pressure system with a built-in pump.

Features:
- Lowest cost of ownership on the market
- Full documentation storage
- 12-second bump test
- Portable with battery option
- Full configuration of gas monitors
- Demand-flow system eliminates accidental leaks

GasAlert Extreme

Designed for the most adverse conditions, the GasAlert Extreme single gas detector offers a wide range of user selectable options, a replaceable battery, and can monitor a variety of toxic hazards. The GasAlert Extreme is compatible with BW's MicroDock II automatic test and calibration system.

Features:
- Two-year battery life (typical) with replaceable 3V camera battery
- Plug-in, replaceable sensor
- Simple, automatic calibration procedure
- Compact and lightweight

Ordering Information

Part Number	Description	Range
GAXT-H	Hydrogen Sulfide	0-100 ppm
GAXT-M	Carbon Monoxide	0-500 ppm
GAXT-X	Oxygen	0-30%
GAXT-S	Sulfur Dioxide	0-100 ppm
GAXT-C	Chlorine	0-50 ppm
GAXT-Z	Hydrogen Cyanide	0-30 ppm
GAXT-D	Nitrogen Dioxide	0-99.9 ppm
GAXT-A	Ammonia	0-100 ppm
GAXT-P	Phosphine	0-5 ppm
GAXT-G	Ozone	0-1 ppm
GAXT-E	Ethylene Oxide	0-100 ppm
GAXT-N	Nitric Oxide	0-250 ppm
GAXT-V	Chlorine Dioxide	0-1 ppm

GasAlertClip Extreme 2 & 3   RENTAL

As the world's most popular and widely used zero-maintenance gas detector, the GasAlertClip Extreme offers continuous, reliable protection. Available in two year or three year versions, this single gas detector requires no calibration, sensor replacement, battery replacement, or battery charging. Compatible with the MicroDock II automatic test system, the simplicity of the GasAlertClip Extreme combined with minimal training requirements and negligible maintenance cost make the GasAlertClip Extreme one of the most cost-effective PPE solutions for facility workers and on-site contractors.

Features:
- Large confidence LCD displays life remaining in months, days and hours
- Displays peak alarm exposures encountered on demand
- User-activated daily self-test
- Internal vibrating alarm for high noise environments
- Records and transmits gas alarm events
- User-selectable alarm setpoints (5/10 or 10/15) now available on GA24XT-H510 model
- Compact and lightweight design makes it comfortable to wear
- Water-resistant
- Compatible with BW MicroDock II automatic test station
- Full function self-test of sensor, battery status, circuit integrity, and audible/visual alarms
- Bright, wide-angled visual alarm bars
- Built-in concussion-proof boot

Specifications

Size	1.1 x 2.0 x 3.2 in. / 2.8 x 5.0 x 8.1 cm
Weight	2.7 oz. / 76 g
Temperature	H_2S: -40 to +122°F / -40 to +50°C CO: -22 to +122°F / -30 to +50°C SO_2: -22 to +122°F / -30 to +50°C O_2: -4 to +122°F / -20 to +50°C
Humidity	5% - 95% RH (non-condensing)
Alarms	Visual, vibrating, audible (95 dB)
	Low, High
Tests	Full function self-test on activation and every 20 hours, and automatic battery test every 2 hours
Typical battery life	Two years (H_2S, CO, SO_2 or O_2) or three years (H_2S or CO)
Ratings	EMI/RFI: Complies with EMC Directive 89/336/EEC
IP 66/67	
Certifications and approvals	ⓢ Class I, Div. 1, Gr. A, B, C, D American Bureau of Shipping **ATEX**: CE ⟨Ex⟩ II 1 G T4 Ex ia IIC T4 **IECEx**: Ex ia IIC T4 CE European Conformity
Warranty	Two or three years from activation (given normal operation), plus one year shelf life

Ordering Information

GasAlertClip Extreme 2-Year Detectors	Alarm Setpoint	Order Number*
Hydrogen sulfide (H2S)	Low - 10 ppm / High - 15 ppm	GA24XT-H
Hydrogen sulfide (H2S) - bulk pack	Low - 10 ppm / High - 15 ppm	GA24XT-H-B50
Hydrogen sulfide (H2S)	Toggle between 5/10 and 10/15	GA24XT-H510
Carbon monoxide (CO)	Low - 35 ppm / High - 200 ppm	GA24XT-M
Carbon monoxide (CO)	Low - 30 ppm / High - 200 ppm	GA24XT-M30200
Carbon monoxide (CO)	Low - 50 ppm / High - 200 ppm	GA24XT-M50200
Sulfur dioxide (SO2)	Low - 5 ppm / High - 10 ppm	GA24XT-S
Oxygen (O2)	Low - 19.5% / High - 23.5%	GA24XT-X
Oxygen (O2)	Low - 19.5% / High - 22.5%	GA24XT-X19.522.5
GasAlertClip Extreme 3-Year Detectors	**Alarm Setpoint**	**Order Number***
Hydrogen sulfide (H2S)	Low - 10 ppm / High - 15 ppm	GA36XT-H
Hydrogen sulfide (H2S)	Low - 5 ppm / High - 10 ppm	GA36XT-H510
Carbon monoxide (CO)	Low - 35 ppm / High - 200 ppm	GA36XT-M
Carbon monoxide (CO)	Low - 30 ppm / High - 200 ppm	GA36XT-M30200
Carbon monoxide (CO)	Low - 50 ppm / High - 200 ppm	GA36XT-M50200

* To order a 50-unit bulk package (one model type per pack only). add suffix "-B50"

ToxiPro

The field replaceable ToxiPro single-gas detector has three visual alarm windows that come standard with both high visibility yellow (warning) and red (danger) alarm LEDs that flash and chase. New enhancements for the IQ Management System provide automated email alerts so you and your entire group are in control by knowing instantly what alarms are occurring and more specifically, with customizable settings, only the alarms that are important to you. You can now be assured that during an incident you will know who was wearing the monitor, what work area they were in, when the event took place, and what type of alarm event they experienced. Incident investigation time is now reduced with more detailed information about the alarm.

Features:

Design
- Compact and rugged
- IP66/IP67 rated protection against dust and water ingress
- Over-molded boot
- One button operation
- Large display (backlit)
- Loud alarm – 10% louder than previous model
- High visibility yellow and red alarm LED(s)

Logging and Download
- Built-in black-box event logger (100 events)
- IrDA® PC communication
- Available with datalogger

Battery
- Replaceable lithium – 1 year of operation ingress

Sensors and Calibration
- O2, CO, H2S, SO2, CO-H, Cl2, NH3, NO2, PH3, HCN
- One-button automatic calibration

Readout
- Current, max, STEL and TWA gas readings, time

Alarms
- Low, high, STEL and TWA audible and visual alarms; optional vibrating alarm

IQ Express™ Docking Station

Improve your gas detection program with the IQ Express™ Dock for the ToxiPro® and ToxiLtd® single-gas detectors. Managing your gas detection program is automatic with the IQ Express Dock, helping to improve compliance and reduce labour and calibration costs. As part of the IQ Management System, the IQ Express Dock allows you to create a better gas detection program.

Features:

Automated Tests
- Automatic instrument identification
- Automatic battery test
- Automatic alarm tests (audible, visible, vibrating)
- Automatic bump test
- Automatic calibration (if necessary)
- Automatic record keeping
- Automatic ready / fault indication

Configuration Options
- Standalone calibration station
- Connected to PC via USB
- Connected to PC via ethernet (optional)

Standard versus Enhanced Docks
- Standard docks are capable of processing ToxiPro and ToxiLtd O2, CO and H2S detectors
- Enhanced docks are capable of processing O2, CO, H2S, SO2, Cl2, NO2, NH3, HCN and PH3 detectors

Efficient and Economical
- Bump test in under 20 seconds
- Calibration in under 1 minute

EcoSmart Cylinders

Concept Controls and Gasco are taking responsibility for the impact our products have on the environment. Exclusive EcoSmart cylinders are coupled with innovative measures which enable you to reuse and refill your gas cylinder. Gasco employs proprietary procedures to create the highest quality grades of pure gases and gas mixtures bringing us to the forefront of this technology. Plus, EcoSmart cylinders are available at no additional cost. The price remains the same as in a throwaway!

Available sizes: 44ES, 58ES, 66Es, 116ES, 650ES

MULTI-GAS MONITORS

QRAE 3 *NEW*

RAE Systems introduces a new 4-gas wireless monitor, the QRAE 3. The new QRAE 3 is a versatile, rugged, one- to four-sensor pumped or diffusion gas monitor that provides continuous exposure monitoring of oxygen (O2), combustibles, and toxic gases, including hydrogen sulfide (H2S), carbon monoxide (CO), sulfur dioxide (S02) and hydrogen cyanide (HCN) for workers and responders in hazardous environments. QRAE 3 can deliver wireless real-time instrument readings and alarm status 24/7. This provides better incident visibility and can improve response time.

Features:
- Man down alarm with real-time remote wireless notification
- Easy maintenance with field-replaceable sensors and pump
- Fully automated bump testing and calibration with AutoRAE 2
- Pumped or diffusion models available
- Large graphic display can rotate180º
- IP-65/67 water- and dust-resistant case
- Strong, protective, concussion-proof design
- Real-time gas concentration readings and alarm status enabled by state-of-the-art wireless technology
- Unmistakable five-way local and remote wireless notification of alarm conditions
- Large graphical display icon-driven user interface through intuitive, simple-to-operate, two-button user interface
- Multi-language support: 17 languages encoded
- Easy access to pump, sensors, filter and battery compartment

Specifications

Sensors	Up to four field-replaceable sensors: • LEL: Catalytic bead for combustibles (built-in Correction Factor library) • Oxygen: Liquid electrolyte O2 • Toxic: electrochemical for H2S, CO, SO2, HCN
Running time	• 14 hours continuous non-wireless, diffusion • 11 hours continuous non- wireless, pumped • 10 hours continuous with wireless, diffusion • 8 hours continuous with wireless, pumped Note: All battery specifications at 68° F (20° C); lower temperatures and alarm conditions will affect runtime
Display Graphic	Monochrome graphic display (128mm x 80mm) Display size: 1.57" W x 1.06" H (40 x 27 mm) with backlighting Automatic or on-demand screen rotation Keypad two-button operation
Direct Readout	• Real-time reading of gas concentrations • Battery status • Pump status (if equipped with pump) • Wireless on/off and wireless reception quality • STEL, TWA, peak, and minimum values • Man down and policy enforcement indicators
Alarms	• Multi-tone 95dB buzzer (at 11.8"/ 30 cm, typical), vibration alarm, and flashing red LEDs and on-screen indication of alarm conditions • Alarms: latching, non-latching or manual override • Additional diagnostic alarm and display message for low battery • Pump stall alarm (pumped version only) • Man down alarm with pre-alarm and real-time remote wireless notification
Datalogging	• Continuous datalogging (3 months for 4 sensors at 1-minute intervals, 24/7) • Configurable datalogging intervals (from 1 to 3,600 sec)

Communication & Data Download	• Data download and instrument set-up and upgrades on PC via travel charger • Wireless data and status transmission via built-in RF modem (optional)
EM Immunity	EMI and ESD test: 100MHz to 1GHz 30V/m, no alarm Contact: ±4kV Air: ±8kV, no alarm
IP Rating	Pumped: IP-65 Diffusion: IP-67
Hazardous Area Approval	US and Canada: classified for use in Class I, Division 1, Groups A, B, C and D Europe: IECEx/ATEX (II 1G Ex ia IIC T4) (pending)
Temperature	-4° to 122° F (-20° to 50° C) for T4 temperature code
Humidity	0% to 95% relative humidity (non-condensing)
Warranty	2-year warranty on device 3-year warranty on LEL, O2, CO, H2S sensors 1-year warranty on SO2, HCN sensors

Ordering Information
- Wireless and non-wireless options available for all configurations
- Diffusion and pumped versions available for all configurations
- Contact your Concept Controls representative for monitor configurations and accessories

Optional Accessories
- AutoRAE 2 Automatic Test and Calibration System
- External battery charger

QRAE II and QRAE II Pumped **RENTAL**

The QRAE II is a full-featured, compact, one- to four-sensor gas detector for detection of combustibles, oxygen, hydrogen sulfide, and carbon monoxide, and is available as a diffusion or pumped monitor.

Features:
- Patented SPE O2™ oxygen sensor
- Lead-free design that complies with RoHS directive
- Extended life compared to lead-type electrochemical oxygen sensors, resulting in a low cost of ownership
- Leak-free design, minimizing downtime
- Best EMI/RFI immunity technology for products in its class, eliminating radio interference
- Easy access to pump, sensors, filter and battery compartment without exposing electronic components to potential damage
- IP-65 water- and dust-resistant case
- Strong, protective, concussion-proof design

Advantages
- Plug-in sensors: oxygen, combustibles, hydrogen sulfide, carbon monoxide or sulfur dioxide
- Intuitive, simple-to-operate, two-button user interface with built-in pump
- Pump or diffusion models available
- Cradle doubles as an external battery charger and data transfer connection
- Rugged housing
- Large graphic display for easy overview of gas type and concentration
- Rechargeable Lithium-ion battery pack provides up to 14 hours of continuous operation

QRAE II Ordering Options

QRAE II Monitor Includes:
- Monitor as specified
- Sensors as specified
- Calibration adapter and internal filters (diffusion only)
- Quick reference guide
- User manual and ProRAE Studio Software Package for Windows 2000, NT and XP on CD-ROM
- Alkaline adapter
- Water trap filter (pump only)
- Rechargeable versions additionally offer:
  - Charging/download cradle with computer interface cable
  - Universal adapter
  - Lithium-ion battery pack

Default Sensor Specifications*

Gas	Range	Resolution
Oxygen	0 to 30.0%	0.10%
Combustible	0 to 100% LEL	1% LEL
Carbon Monoxide	0 to 1000 ppm	1 ppm
Hydrogen Sulfide	0 to 100 ppm 0 to 1000 ppm	0.1 ppm 1 ppm
Sulfur Dioxide	0.1 to 100 ppm	0.1 ppm

Consult Concept Controls for custom configurations

Confined Space Entry Kit for Pump and Diffusion Models (CSK1) (CSK2):
- Hard transport case with pre-cut foam
- 6' (2 m) Tygon tubing
- 10" (25cm) stiff aluminum sample probe with replaceable filter
- Constant-flow hand pump
- Tool kit
- Three water trap filters
- CSK2 versions additionally offer:
  - Four-gas mix in a 34L cylinder (50% LEL, 18% O2, 10 ppm H2S, 50 ppm CO)
  - Calibration regulator and tubing

Ordering Information

Part Number	Gases Detected	Includes
020-1111-1A0	LEL / O2 / H2S / CO	Alkaline
020-1111-0A0	LEL / O2 / H2S / CO	Li-ion / Alkaline
020-1111-2A0	LEL / O2 / H2S / CO (Pumped)	Li-ion / Alkaline

AutoRAE Lite for QRAE II   RENTAL

The AutoRAE Lite is a high-speed and low-operating-cost bump test and calibration station with data storage in Excel format. The AutoRAE Lite provides the lowest cost of ownership and direct functional bump test indication. In addition, the AutoRAE Lite operates on a low-pressure system with a built-in pump.

Features:
- Lowest cost of ownership on the market
- 12 second bump test
- 2 minute calibration
- Full documentation storage
- Portable with battery option
- Configures gas monitors
- Demand flow system eliminates accidental leaks

Detector Specifications

Certifications	CE
Sensor	Light and sound sensors
Data Storage	Text files (can be opened by any spreadsheet software or text editor), saved daily for: 1. Bump tests 2. Calibrations 3. Alarms Tamper-proof
Bump Test Time	12 Seconds
Bump Test Gas Usage	70 cm^3
Calibration Time	2 minutes
Calibration Gas Usage	300 cm^3
Pneumatic System	Demand-flow regulator Built-in pump "No gas flow" alarm
Power Supply	Universal power cord or battery pack
Operating Temp.	+14° F to +122° F (-10° C to +50° C)
Humidity	10% to 90% relative humidity, non-condensing
Dimensions	15" L x 12.5" W x 6.5" H (38cm x 32cm x 17cm)
Weight	8.56 lbs (3.9 kg)

AutoRAE Lite Includes:
- AutoRAE Lite as specified
- USB cable for PC setup
- Universal power supply
- Demand-flow regulator
- SD memory card, minimum 512Mb
- Quick-start guide
- Inlet filter
- Diffusion adapter
- CD includes:
  - Operation manual
  - Drivers
  - Utility software

QRAE Plus   RENTAL

The QRAE Plus is a full-featured, compact, one-to-four sensor confined space gas detector. Its features include easy-to-change, externally accessed battery packs (available in both alkaline and rechargeable versions) and water-resistant case design. The rechargeable, Lithium-ion battery pack provides up to 20 hours of continuous operation.

Features:
- One-to-four plug-in "smart" sensors
- Optional substance-specific toxic sensors
- Rechargeable Lithium-ion battery
- Highly resistant to radio frequency

Ordering Information

Part Number	Gases Detected	Includes
028-1101-010	LEL / O2 / H2S	Monitor Only
028-1102-010	LEL / O2 / CO	Monitor Only
028-1112-010	LEL / O2 / H2S / CO	Monitor Only
028-1112-011	LEL / O2 / H2S / CO	Monitor and Accessory kit

AutoRAE 2 Calibration Station   NEW

The AutoRAE 2 Automatic Test and Calibration System makes compliance with gas monitor test and calibration requirements as easy as pressing a button. Simply cradle the monitor on its form-fitting product-specific cradle and the system automatically takes care of all calibration, testing, and recharging.

The AutoRAE 2 is a flexible, modular system that can be configured to meet your calibration requirements effectively and efficiently. An AutoRAE 2 system can be as simple as a single cradle deployed in standalone mode to calibrate one instrument at a time, or as powerful as a controller-based system supporting up to 10 mixed cradle models (ToxiRAE Pro and MultiRAE) and 5 distinct calibration gas cylinders.

MultiRAE Series

RENTAL · WIRELESS

MultiRAE wireless multi-threat instruments are designed for both personal protection and point detection applications. MultiRAE instruments reliably and accurately detect a wide range of hazards including volatile organic compounds (VOCs), toxic gases and O2, combustibles, carbon dioxide (CO2), and radiation (gamma).

All MultiRAE Series Monitors Include:

- Wireless access to real-time instrument readings and alarm status from any location
- Unmistakable five-way local and remote wireless notification of alarm conditions
- 25+ interchangeable sensor options, including PID for VOCs, NDIR and catalytic for combustibles, and NDIR for CO2
- Intelligent sensors store calibration data, so they can be swapped in the field
- Large graphical display with easy-to-use, icon-driven interface
- Continuous datalogging (6 months for 5 sensors, 24x7)

MultiRAE Monitors Also Include:

- 0.1 to 5,000 ppm PID interchangeable sensor option
- Extensive on-board gas libraries (190 VOCs and 55 combustible gases)

MultiRAE Pro Monitors Also Include:

- All-in-one continuous monitoring capability for radiation, VOCs, oxygen, toxic and combustible gases, up to 6 threats at a time
- Parts-per-billion PID interchangeable sensor option

Ordering Information

	MultiRAE Lite	MultiRAE	MultiRAE Pro
Pump / Diffusion	Yes / Yes	Yes / No	Yes / No
PID 10.6 eV (1~1,000ppm)	Yes (pumped model only)	-	-
PID 10.6 eV (0.1~5,000ppm)	-	Yes	Yes
PID 10.6 eV, ppb (0.01~2,000ppm)	-	-	Yes
PID 9.8 eV	-	Yes	Yes
Gamma Sensor	-	-	Yes
Pump + Tube	-	Yes	Yes
Rubber Boot	Yellow	Yellow	Black
IP Rating	IP-65	IP-65	IP-65 / IP-67 when unit off
Charger	Travel charger	Travel charger	Travel charger + Charging Station

VRAE

RENTAL

VRAE is a hand-held one-to-five gas monitor with built-in sampling pump and optional data logging. Sensors include new RAE dual range 0-100% volume and 0-100% LEL, oxygen, and three or four smart, interchangeable toxic sensors may be added. The dual range combustible sensor can monitor explosive gases in an oxygen-free environment at percent-by-volume levels. The internal pump automatically shuts off and an alarm is activated if the remote probe tubing crimps or liquid is sucked onto the field-replaceable filter.

Features:

- Large, alarm-activated LCD display
- Visual flashing alarm
- 16,000 data points download to PC
- Snap-in, field replaceable, rechargeable battery with up to 10 hours of continuous operation
- RF Protected from portable radios
- Internal sample draw pump for quick response and remote sampling
- Smart battery charging w/ status indication and LED indicator
- 48 built-in correction factors for LEL sensors
- Rigid inlet probe & collection port
- Rubber protective boot

Ordering Information

Part Number	Gases Detected	Includes
018-1100-003	LEL / %VOL / O2	Monitor Only
018-1110-003	LEL / %VOL / O2 / H2S	Monitor Only
018-1120-003	LEL / %VOL / O2 / CO	Monitor Only
018-1130-003	LEL / %VOL / O2 / H2S / CO	Monitor Only
018-1112-003	LEL / %VOL / O2 / H2S / SO2	Monitor Only

MultiRAE IR

RENTAL · WIRELESS

The MultiRAE IR combines a PID (Photoionization Detector) and carbon dioxide (CO2) sensor with O2, LEL, and one specific toxic gas sensor in one compact monitor with sampling pump. The same monitor can be used as a personal monitor, a hand-held sniffer, or as a continuous, operational area monitor for use in applications including indoor air quality and industrial hygiene.

Features:

- O2, LEL, PID, CO2, and any plug-in "smart" toxic sensors:
  - 0-20,000 ppm measurement of CO2
  - 0-2,000 ppm measurement of VOCs
- Drop-in battery
- For safe area use only

Call us for ordering information

GasAlertMicroClip XT   RENTAL

The slim and compact GasAlertMicroClip XT provides affordable protection from atmospheric hazards. This multi-gas detector provides continuous visual confirmation of detector operation and compliance with the IntelliFlash™ feature, and the simple one-button operation offers ultimate ease of use and significantly reduces time spent training. The GasAlertMicroClip XT is fully compatible with BW's MicroDock II automatic test and calibration system.

Features:
- IntelliFlash verifies operation and compliance to both the user and supervisor
- Tamper-proof, one button operation
- Compatible with the Sampler motorized remote sampling pump
- Equipped with internal vibrating alarm for high noise areas
- Powered by a lithium polymer battery
- Multi-language support in English, French, German, Spanish and Portuguese
- Conveniently manage your fleet using Fleet Manager II

Specifications

Size	4.4 x 2.4 x 1.1 in. / 11.3 x 6.0 x 2.9 cm
Weight	6 oz. / 171 g
Temperature	-4 to +122°F / -20 to +50°C
Humidity	0% - 95% RH (non-condensing)
Alarms	- Visual, vibrating, audible (95 dB)
	- Low, High, STEL, TWA, OL (over limit)
Tests	Audible/visual alarms on activation, sensors, battery and circuitry (continuous)
Pump	Compatible with the Sampler motorized sampling pump
Battery life	10 hours (typical); recharges in less than 4 hours
User options	Confidence beep / Set STEL interval / Sensor on/off / Latching alarms / Safe display mode / Stealth mode / Calibration lock / Auto zero on start up / O2 auto calibration on start up / Set bump test interval / User-settable calibration gas level / IntelliFlash interval / Combustible gas measurement (% LEL or % by volume methane) / Force bump test when overdue / Force calibration when overdue / Low alarm acknowledge / Language choices (five) / Set custom start up message
Ratings	EMI/RFI: Complies with EMC Directive 89/336/EEC
	IP 66/67
Certifications and Approvals	ⓈⓇ Class I, Div. 1, Gr. A, B, C, D / **ATEX**: CE ⟨Ex⟩ II 1 G Ex ia IIC T4 Ga / **IECEx**: Ex ia IIC T4 Ga / CE European Conformity
Warranty	Full two year warranty including all sensors

Ordering Information

GasAlert MicroClip XT 4-Gas Detector	Yellow	Black
%LEL, O2, H2S, CO	MC2-XWHM-Y-NA	MC2-XWHM-B-NA

GasAlert MicroClip XT 3-Gas Detector	Yellow	Black
%LEL, O2, H2S	MC2-XWH0-Y-NA	MC2-XWH0-B-NA
%LEL, O2, CO	MC2-XW0M-Y-NA	MC2-XW0M-B-NA
O2, H2S, CO	MC2-X0HM-Y-NA	MC2-X0HM-B-NA

Call for more configurations

Sensor Specifications

	Range	Resolution
Hydrogen sulfide (H2S)	0-100 ppm	1 ppm
Carbon monoxide (CO)	0-500 ppm	1 ppm
Oxygen (O2)	0-30.0%	0.1%
Combustible gases (%LEL)	0-100% LEL / 0-5.0% v/v	1% / 0.1%

Alarm setpoints for all sensors are user adjustable. Setpoint(s) are automatically displayed during instrument start up.

GasAlertMax XT II [RENTAL]

GasAlertMax XT II is the smart, simple, economical way to compliance. Workers feel safe and incidents are minimized so everyone will be able to do more. That means savings realized from business continuity and productivity.

Simple operation with SmartSample pump. GasAlertMax XT II reliably monitors up to four hazards and combines straightforward one-button operation with our robust, motorized pump for intelligent, remote sampling ideal for confined spaces. The GasAlertMax XT II is fully compatible with MicroDock II automated test and calibration system.

Features:
- Detects up to four hazards including H2S, CO, O2 and combustibles
- More accurate sampling results with new SmartSample pump technology
- IntelliFlash verifies operation and compliance to both the user and supervisors from up to 20 ft. / 6.1 m
- Integrated sampling pump with reliable diaphragm technology
- Built-in rechargeable lithium battery
- Best in class block detection with semi-conductor pressure sensor
- Conveniently manage your detector with Fleet Manager II software
- Multi-language support
- Low, High STEL, TWA, and OL visual, audible and vibrating alarms
- MicroDock II compatible

Ordering Information

Sensor Configuration	Yellow	Black
%LEL, O2, H2S, CO	XT-XWHM-Y-NA	XT-XWHM-B-NA
%LEL, O2, H2S	XT-XWH0-Y-NA	XT-XWH0-B-NA
%LEL, O2, CO	XT-XW0M-Y-NA	XT-XW0M-B-NA
O2, H2S, CO	XT-X0HM-Y-NA	XT-X0HM-B-NA
%LEL, O2	XT-XW00-Y-NA	XT-XW00-B-NA
H2S, CO	XT-00HM-Y-NA	XT-00HM-B-NA
O2, H2S	XT-X0H0-Y-NA	XT-X0H0-B-NA
O2, CO	XT-X00M-Y-NA	XT-X00M-B-NA
O2	XT-X000-Y-NA	XT-X000-B-NA
H2S	XT-00H0-Y-NA	XT-00H0-B-NA
CO	XT-000M-Y-NA	XT-000M-B-NA

Sensor Specifications

	Range	Resolution
Hydrogen sulfide (H2S)	0-200 ppm	0.1 ppm
Carbon monoxide (CO)	0-1000 ppm	1 ppm
Oxygen (O2)	0-30.0%	0.1%
Combustible gases (%LEL)	0-100% LEL 0-5.0% v/v	1% 0.1%

Alarm setpoints for all sensors are user adjustable. Setpoint(s) are automatically displayed during instrument start up.

GasAlertQuattro [RENTAL]

The GasAlertQuattro displays real-time gas concentration readings for up to four gas hazards including H2S, CO, O2, and %LEL. Audible, visual and vibrating alarms alert users to unsafe conditions while downloadable datalogging provides exposure reporting.

IntelliFlash, a green LED confidence flash, verifies normal operation to both the user and supervisors from up to 20 ft / 6.10 m. With easy to identify bump test and calibration icons, power options that outlast your shift, and one-button operational simplicity, seeing is believing.

Features:
- One-button operational simplicity
- IntelliFlash verifies operation and compliance to both the user and supervisors from up to 20 ft / 6.1 m
- Field-proven Surecell sensors offer an unprecedented performance in even the harshest environments
- Easy to identify icons for onsite auditing and compliance
- Flexible, interchangeable battery options with extended runtimes - rechargeable battery pack or 3 AA batteries
- Extensive datalogging and event logging capability
- User options such as flip display, accessible through IR interface for tamper-proof operation
- Visual, audible and vibrating alarms
- Multi-language support in English, French, German, Spanish and Portuguese
- MicroDock II compatible for easy calibration, test and record storage

Ordering Information

GasAlertQuattro 4-Gas Detector	Alkaline Version	Rechargeable Version
%LEL, O2, H2S, CO	QT-XWHM-A-Y-NA	QT-XWHM-R-Y-NA

GasAlertQuattro 3-Gas Detector	Alkaline Version	Rechargeable Version
%LEL, O2, H2S	QT-XWH0-A-Y-NA	QT-XWH0-R-Y-NA
%LEL, O2, CO	QT-XW0M-A-Y-NA	QT-XW0M-R-Y-NA
O2, H2S, CO	QT-X0HM-A-Y-NA	QT-X0HM-R-Y-NA

Call for more configurations

Sensor Specifications

	Range	Resolution
Hydrogen sulfide (H2S)	0-200 ppm	0.1 ppm
Carbon monoxide (CO)	0-1000 ppm	1 ppm
Oxygen (O2)	0-30.0%	0.1%
Combustible gases (%LEL)	0-100% LEL 0-5.0% v/v	1% 0.1%

Alarm setpoints for all sensors are user adjustable. Setpoint(s) are automatically displayed during instrument start up.

GasAlert Micro 5 & Micro 5 PID RENTAL

Providing protection from up to five potential atmospheric hazards including oxygen, combustible and toxic gases, GasAlertMicro 5 is unparalleled in its versatility, capability and overall value. Continuously monitoring and displaying concentrations of up to five gases, the compact and lightweight GasAlertMicro 5 was designed and engineered with an extensive host of applications in mind.

GasAlert Micro 5 Features:
- Water-resistant design in an integral concussion-proof enclosure
- Integral motorized pump option for remote sampling
- Powered by three AA alkaline batteries or a hot-swappable rechargeable battery pack
- Triple alarms (audible, visual and vibrating)
- Multi-language support in English, French, German, Spanish and Portuguese
- Large, user selectable backlit LCD
- Four alarm levels: Low, High, TWA and STEL
- Compatible with MicroDock II Automatic Test and Calibration Station
- Datalogging models store and recall event information
- Wide range of user selectable field options including password protection, safe and stealth modes, battery installation in the field
- Internal vibrating alarm
- Full function self-test confirms sensor, battery and circuitry integrity and audible/visual alarms on activation

GasAlert Micro 5 PID Additional Features:
- 0 - 1000 ppm measurement of VOCs (Volatile Organic Compounds)

Available Sensors Include:
VOCs, CO2, LEL, H2S, CO, O2, SO2, PH3, NH3, NO2, HCN, Cl2, ClO2, and O3

Call us for ordering information

EcoSmart Cylinders

Concept Controls and Gasco are taking responsibility for the impact our products have on the environment. Exclusive EcoSmart cylinders enable you to reuse and refill your gas cylinder. Gasco's proprietary procedures create highest quality grades of pure gases and gas mixtures bringing us to the forefront of this technology. Plus, EcoSmart cylinders are available at no additional cost!

44ES, 58ES, 66Es, 116ES, 650ES

MicroDock II Calibration Station RENTAL

The MicroDock II is the world's most advanced, compact and affordable automatic calibration, testing and data management system for portable gas detection equipment. Compatible with BW's GasAlertMicro 5, GasAlertMicro 5 PID, GasAlertMicro, GasAlertMicroClip XT, GasAlert Extreme, GasAlertClip Extreme family, and GasAlert Quattro, the MicroDock II is expandable to up to 10 docking modules (including up to 6 charging units).

Features:
- Fully automatic "hands-free" calibration and functional bump testing
- Automatically verifies performance of audible and visual alarms
- Stores and updates calibration records in the MicroDock II, as well as in datalogging instruments
- Entirely self-contained with no computer required
- Lightweight and fully portable with optional wall mount
- Operates via 6V line power or a set of four C-cell batteries
- Fully customizable
- Add extra self-contained docking modules to system via simple, plug-in connections—no external pressure transducers or gas lines necessary
- Simple, accurate record keeping and fleet management
- Verifies proper performance of detectors
- Reduces maintenance costs
- Multiple MicroDock II systems can be connected via a LAN
- Includes BW Fleet Manager software for easy data analysis
- Multi-language support in English, French, German, Spanish and Portuguese

Expandable to service all your BW monitors

	Bump Check	Calibrate	Reconfigure	Download Events	Download Data	Charging	Non-Charging
GasAlertClip Extreme	•			•			•
GasAlert Extreme	•	•	•	•	•		•
GasAlertMicroClip XT	•	•	•	•	•	•	
GasAlertMicro	•	•	•	•		•	•
GasAlertMicro 5/PID/IR	•	•	•			•	•
GasAlert Quattro	•	•	•	•	•	•	•

Impact & Impact Pro

Available in two configurations, the Impact and Impact Pro accepts either disposable or serviceable cartridges, all of which are pre-calibrated and can be replaced in under a minute. Compact and rugged, these monitors are designed for tough working environments while being small, lightweight and unobtrusive, making them ideal for use in confined spaces where entry and exit may be difficult.

Gas checks prior to entering a confined space can be carried out using a drop line, hand aspirator, or via an optional built-in pump (supplied as standard on the Impact Pro) that turns on and off automatically when the sampling tube is connected.

Features:
- Pre-calibrated plug-in sensor cartridge
- Patented, high specification Surecell™ toxic sensors
- Multi-lingual, intuitive menu system
- Built-in correction factors for flammable gases
- Cartridge replacement in less than one minute
- Re-calibration in less than two minutes when using Enforcer
- Rugged, impact resistant housing is waterproof to IP67
- 3 levels of instantaneous alarm (audible, visual, vibrating)
- Safelink communications (Impact Pro model only)
- Peak hold function and drop line
- Hand aspiration
- Built-in automatic pump (Impact Pro model only)

Enforcer Calibration Accessory

The Enforcer calibrates Impact multi-gas monitors fitted with oxygen, flammable, carbon monoxide and hydrogen sulfide sensors in less than two minutes. Volumes and flow rates are minimized to allow approximately 200 calibrations per cylinder of gas making calibration as low in cost as a 'bump' test.

Impact instruments, when used with the Enforce,r are always available for use. Calibration results are recorded for printing at a later date via the optional PC software thereby ensuring that instrument histories are always available if required.

Features:
- Disposable multi-gas cylinder
- Wall mounting bracket with security fixing included
- Durable plastic housing
- Replaceable gaskets and seals
- Built-in indicator tells you when gas needs replacing
- Calibration history recorded by instrument
- Print history via optional PC software

MicroMAX Pro

The MicroMAX Pro is easy to use, reliable, high quality, economical and lightweight. It also has a short response time, built-in data logging, lifetime warranty (excluding sensors and pumps), is certified for explosive dust environments, and has Voice Assist. Every function, from immediate warnings to simple on and off functions, is accompanied with a voice message when activated, which is especially valuable in poorly lit environments.

The MicroMAX Pro is OSHA compliant, is designed, tested and manufactured under strict ISO 9001 standards, and is UL classified for use in hazardous locations. It combines diffusion and built-in internal sampling pump systems for simultaneously monitoring up to five gases.

Features:
- Loud 90 dB horn
- LED alarm indicator
- Voice Assist speaker with four language options
- User selectable internal sampling pump/diffusion
- Hydrophobic filter
- Dust inhibiting particulate filter (inside inlet)
- Field interchangeable NiMH or alkaline batteries
- Interchangeable plug-in sensors
- Rugged RFI/EMI resistant aluminum case

IQ Force™ 4-Gas Detector NEW

IQ Force multi-gas detectors monitor up to four gases simultaneously including oxygen (O2), combustible gases (%LEL), hydrogen sulfide (H2S) and carbon monoxide (CO). Can be combined with an optional pump, docking station, and software to provide a more comprehensive IQ Management System solution.

Features:
- Rugged industrial design with built-in impact resistant housing
- Extensive RFI shielding
- Continuous black box data recorder captures a wealth of critical information
- Extensive datalogging capacity
- New nested event logging feature
- Heart and Pump icons confirm normal operating status of instrument and pump
- SafetyFlash™ and Security/Confidence Flash features provide at-a-glance assurance of safety status
- Large LCD screen conveys four simultaneous readings, messages and range of intuitive icons
- Optional motorized sampling pump attaches in seconds
- Field replaceable battery and sensors
- Custom alarm for your site's unique requirements

PHD6® Multi-Gas Detector

The PHD6® is a state-of-the-art six-gas detector with five sensor ports, up to six channels of detection, and 16 sensor options including electrochemical, LEL, PID and Infrared. Day-to-day detector operations are controlled entirely through the mode button. A status bar on the display, with easy-to-recognize icons, gives the user immediate access to everything from time to calibration status. Built-in and easy-to-navigate menus give advanced users the ability to configure the detector in the field.

Features:
- Rugged polycarbonate case with TPE overmold
- Easy-to-read, top-mounted graphic display with configurable backlight
- Black-box recorder stores a minimum of 63 hours of readings and other data
- Eventlogger stores specific data from alarm events
- Optional datalogging for convenient and easy downloading to a computer
- Choose 5 field-replaceable sensors: O2, LEL, PID, Duo-Tox, CO, H2S, CO-H, SO2, Cl2, NO, NO2, NH3, PH3, HCN, IR-CO2, IR-CH4
- Use the Duo-Tox two channel CO/H2S sensor to achieve 6 channel functionality
- One button auto calibration & calibration due reminder
- Interchangeable alkaline and rechargeable (Li-Ion) battery packs with up to 22 hour battery life in either configuration
- Drop-in fast charger / data dock
- Recharges typically in less than 5 hours

MultiPro

The MultiPro monitors up to four confined space gases simultaneously in real-time. It offers one button operation and calibration, an easy-to-read LCD display, audible and visual alarms, and event logger. Rugged, compact, and economical, the MultiPro comes with an optional sample draw pump. As part of the IQ Management System, it can be bump tested and calibrated with the automated IQ Express™ docking station.

Features:
- Compact and rugged over-molded boot
- Automatic event logger (20 events, including sensor type, max, average, time and duration)
- Black-box recorder with over 40 hours of storage
- Optional datalogging for convenient and easy downloading to a computer
- Three field-replaceable sensors: O2, LEL and Biosystems' Duo-Tox two channel CO/H2S sensor
- Alkaline or rechargeable (Li-Ion) versions with up to 22 hour run time

IQ6™ Docking Station

Improve your gas detection program with the IQ6™ Docking Station for the PHD6™ multi-sensor gas detector. The fully automated bump test and calibration station performs up to twelve critical operational procedures, helping improve compliance and reducing labour and calibration gas costs. As part of the IQ Management System, the IQ6 Dock allows you to create a better gas detection program.

Features:
- Automated tests: Instrument Identification, Battery Test, Alarm Tests (audible, visible, vibrating), Bump Test, Calibration (if necessary), Record Keeping, Ready / Fault indication
- Standalone calibration station
- Connected to PC via USB or optional ethernet
- Bump test in under 45 seconds for 4 gas configuration (O2, LEL, CO, H2S)
- Calibration in under 2 minutes for 4 gas configuration (O2, LEL, CO, H2S)

MultiPro IQ Express™ Docking Station

Improve your gas detection program with the MultiPro IQ Express™ Docking Station. The fully automated bump test and calibration station performs up to twelve critical operational procedures. It helps improve compliance and reduce labour and calibration gas costs. As part of the IQ Management System, the MultiPro IQ Express Dock allows you to create a better gas detection program.

Features:
- Automated tests: Instrument Identification, Battery Test, Alarm Tests (audible, visible, vibrating), Bump Test, Calibration (if necessary), Record Keeping, Ready / Fault indication
- Cascade between 1 and 4 docks
- Standalone calibration station
- Connected to PC via USB or ethernet for enhanced control over calibration and data acquisition during testing
- Bump test in under 30 seconds
- Calibration in about 1 minute

PHOTOIONIZATION DETECTORS

MiniRAE Lite   *RENTAL*   *WIRELESS*

The MiniRAE Lite is the most reliable handheld volatile organic compound (VOC) monitor on the market. Its photoionization detector's (PID) range of 0 to 5,000 ppm makes it an ideal instrument for applications ranging from environmental to construction.

Features:
- Proven PID technology
- The patented sensor provides the following unique features:
  - 3-second response time range up to 5,000 ppm
  - Humidity compensation
- Designed for service
- Easy access to lamp and sensor in seconds without tools
- Big graphic display for easy overview of concentration
- Field-interchangeable battery pack, replaceable in seconds without tools
- Integrated flashlight for better visibility in low light
- Multi-language support with 12 languages encoded
- Rugged housing withstands use in harsh environments
  - IP-65 design
  - Strong, protective removable rubber boot
- For safe area use only

Ordering Information

Lamp	Li-ion/Universal Charger	Accessories Kit	Calibration Kit	Part Number
10.6 eV	●			059-A110-000
10.6 eV	●	●	●	059-A111-100

MiniRAE 3000   *RENTAL*   *WIRELESS*

The MiniRAE 3000 is the most advanced handheld volatile organic compound (VOC) monitor on the market. Its photoionization detector's (PID) extended range of 0 to 15,000 ppm makes it an ideal instrument for applications from industrial hygiene to leak and hazmat detection.

The RF modem allows real-time data transmissions with a base controller located up to 500 feet (or two-miles with optional RAELink III portable modem) away from the MiniRAE 3000 detector. A personal computer can be used as the base station for a MiniRAE 3000 system. The standard ProRAE Remote software is capable of monitoring the input of up to 64 remotely-located monitors like MiniRAE 3000, AreaRAE, etc.

Features:
- Proven PID technology
- Self-cleaning lamp and sensor
- The MiniRAE 2000 lamp and sensor come apart in seconds for easy maintenance without any tools
- Measure more chemicals than with any other PID
- Field-interchangeable battery pack

Ordering Information

Lamp	Li-ion/Universal Charger	Accessories Kit	Calibration Kit	Wireless Bluetooth	Part Number
10.6 eV	●				059-B110-000
10.6 eV	●	●	●	●	059-B111-100

PID Lamps
(for use only with models listed)

Part Number	Description	Works With
050-0000-004	10.6 eV Interchangeable 1/2″ PID lamp	MiniRAE3000 / ppbRAE3000 /UltraRAE3000 / MiniRAE Lite
050-0020-000	9.8 eV Interchangeable 1/2″ PID lamp	MiniRAE3000 / ppbRAE3000 /UltraRAE3000
050-0001-000	11.7 eV Interchangeable 1/2″ PID lamp	MiniRAE3000 /UltraRAE3000
050-0000-000	10.6 eV Interchangeable 1/2″ PID lamp	MiniRAE 2000 / UltraRAE
050-0000-001	10.6 eV "Super-bright" 1/2″ PID lamp	ppbRAE Plus

ppbRAE 3000

RENTAL *WIRELESS*

The ppbRAE 3000 is the most advanced handheld volatile organic compound (VOC) monitor on the market.

The RF modem allows real-time data transmissions with a base controller located up to 500 feet (or two-miles with optional RAELink III portable modem) away from the ppbRAE 3000 detector. A personal computer can be used as the base station for a ppbRAE 3000 system. The standard ProRAE Remote software is capable of monitoring the input of up to 64 remotely located monitors like ppbRAE 3000, AreaRAE, etc.

Features:
- New extended range from 1 ppb to 10,000 ppm
- Proven PID technology
- Exclusive zeroing tube assures repeatability at low level measurements with a disposable VOC zeroing tube.
- Self-cleaning lamp and sensor

Ordering Information

Lamp	Includes:	Part Number
10.6 eV	Li-ion battery and universal charger	059-C110-000
10.6 eV	Li-ion battery, universal charger, accessories kit, calibration kit, and wireless Bluetooth	059-C111-100

For additional accessories, see pg. 43

PID Accessories

Part Number	Description	Works With
059-3051-000	Re-chargeable Li-ion battery - CERTIFIED FOR USE IN HAZARDOUS AREA (C1D1)	MiniRAE3000 / ppbRAE3000 / UltraRAE3000
059-3053-000	Re-chargeable Li-ion battery - NON CERTIFIED FOR USE IN HAZARDOUS AREA	MiniRAE Lite
059-3052-000-FRU	Alkaline Battery adapter	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
500-0114-000	Universal wall charging adapter, 110 VAC to 240 VAC, 12 VDC w/ international plug kit	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
059-3059-000	Charging cradle	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
059-3014-000	Travel Charger	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite

UltraRAE 3000

RENTAL *WIRELESS*

The UltraRAE 3000 is the most advanced compound-specific monitor on the market. Its photoionization detector's (PID) extended range of 0.05 to 10,000 ppm in VOC mode and 50 ppb to 200 ppm in benzene-specific mode makes it an ideal instrument for applications,\ from entry pre-screening during refinery and plant maintenance to hazardous material response, marine spill response, and refinery down-stream monitoring.

Features:
- Dual detection mode for total benzene exposure assessment: 60-second snapshot or 15-minute STEL measurement
- High sensitivity to benzene (as low as 50 ppb) provides a lower detection range for future benzene exposure limits
- Lower risk of false alarms through advanced speciation method
- Total VOC measurement mode with extended range of 0.05 to 10,000 ppm
- Proven PID technology:
  - 3-second response in VOC mode or 60 seconds in compound-specific mode
  - Extended range up to 10,000 ppm (in VOC mode) with improved linearity
  - Built-in humidity sensor
  - Automatic temperature-controlled sampling time calculation
  - Highly specific readings combining a 9.8eV UV lamp and RAE-Sep benzene tube
- New sampling probe design provides instant tube-breakthrough visibility
- Versatile VOC or Benzene-Specific modes
- Real-time wireless with built-in Bluetooth and optional RAELink3 portable modem
- Integrated RAE Systems Correction Factors list for more than 200 compounds

Easy to Use
- Large graphic display
- Multi-language support
- Easy access to lamp, sensor and battery in seconds without tools

Low Cost of Ownership
- Inexpensive analysis using low-cost RAE-Sep tubes

Ordering Information

Target Vapour, Lamp	NiMH/Universal Charger	Accessories Kit	Calibration Kit	Wireless Bluetooth	Part Number
Benzene, 9.8 eV	●				059-D310-000
Benzene, 9.8 eV	●	●	●		059-D310-200
Benzene, 9.8 eV	●	●	●	●	059-D311-200

RAE MULTI-GAS ACCESSORIES

Accessories & Calibration Kits

Description	Part Number	Works With
Upgrade to a full CSK kit: this is the accessories and calibration kit with regulator and 4-gas mix (Use only for instruments equipped with O2 / LEL / CO / H2S sensors.)	008-0010-002	MultiRAE Plus /QRAE
Accessories and calibration kit with regulator and 4-gas mix & isobutylene (Use only for instruments equipped with O2 / LEL / CO / H2S / PID sensors.)	008-0010-003	MultiRAE Plus
Accessories kit only – no gas or regulator	008-0012-000	MultiRAE Plus / QRAE / MultiRAE IR
Calibration Kit, includes: Four-Gas Calibration Gas, 58L cylinder (Cal gas contains 50% LEL methane, 20.9% oxygen, 25 ppm hydrogen sulfide, 50 ppm carbon monoxide, balance nitrogen); Isobutylene, 100 ppm (balance air), 34L cylinder, Constant-flow regulators (two) and calibration adapter, 2-cylinder hard plastic carry case Note: Use only for monitors equipped with O2 / LEL / CO / H2S / PID sensors	008-3001-000	MultiRAE Plus
Calibration Kit, includes: Four-Gas Calibration Gas, 34L cylinder (Cal gas contains 50% LEL methane, 20.9% oxygen, 10 ppm hydrogen sulfide, 50 ppm carbon monoxide, balance nitrogen), Constant-flow regulator and calibration adapter, 2-cylinder hard plastic carry case. Note: Use only for monitors equipped with O2 / LEL / CO / H2S sensors	015-3002-001	QRAE Plus
Calibration kit for MultiRAE IR monitor equipped with LEL/O2/CO2/CO sensors and IAQRAE monitors equipped with CO2 / CO sensors. Kit includes one 34L cylinder, four-gas calibration mix (50% LEL, 20.9% O2, 50 ppm CO, 5,000 ppm CO2, bal. N2), one 34L cylinder N2 zero gas, one constant-flow regulator (male) with adapter and tubing, and a 2-cylinder hard plastic carry case.	008-0917-000	MultiRAE IR / IAQRAE
Calibration kit for IAQRAE and MultiRAE IR instruments equipped with LEL / O2 / CO2 / CO / PID sensors. Kit includes one 34L cylinder four-gas calibration mix (50% LEL, 20.9% O2, 50 ppm CO, 5000 ppm CO2, bal. N2), one 34L cylinder isobutylene, one constant-flow regulator (male) with adapter and tubing, and 2-cylinder hard plastic carry case. For PID kits, isobutylene is used for CO2 sensor zero gas.	008-0916-000	MultiRAE IR / IAQRAE
VRAE (PGM-7800 Series) accessories kit	017-0914-000	VRAE
Calibration kit case (no gas or regulator) holds two 34L or 58L cylinders of calibration gas	500-0034-000	All
Lamp cleaning kit	081-0002-000	MultiRAE Plus

Sensors & Lamps

Description		Part Number	Works With
10.6 eV 1/4″ PID lamp (interchangeable)		050-0010-000	MultiRAE Plus
11.7 eV 1/4″ PID lamp (in ampoule) (interchangeable)		050-0011-001	MultiRAE Plus
10.6 eV Combination PID Lamp/Sensor (4R)		023-0102-000	EntryRAE
PID sensor for 1/4″ PID lamps		008-3007-001	MultiRAE IR / MultiRAE+
H2S	Hydrogen Sulfide sensor (interchangeable)	008-1111-000	ALL except EntryRAE/ QRAE II
CO	Carbon Monoxide sensor (interchangeable)	008-1112-000	ALL except EntryRAE/ QRAE II
SO2	Sulfur Dioxide sensor (interchangeable)	008-1113-000	IAQRAE/ MultiRAE IR/ MultiRAE Plus/ QRAE Plus/ SentryRAE Steel/ VRAE
NO	Nitric Oxide sensor (interchangeable)	008-1114-000	IAQRAE/ MultiRAE IR/ MultiRAE Plus/ QRAE Plus/ SentryRAE Steel/ VRAE
NO2	Nitrogen Dioxide sensor (interchangeable)	008-1115-000	MultiRAE IR/ MultiRAE Plus / QRAE Plus / VRAE/ SentryRAE Steel
Cl2	Chlorine sensor (interchangeable)	008-1116-001	MultiRAE IR/ MultiRAE Plus / QRAE Plus / VRAE/ SentryRAE Steel
HCN	Hydrogen Cyanide sensor (interchangeable)	008-1117-000	MultiRAE IR/ MultiRAE Plus/ QRAE Plus/ VRAE/ SentryRAE Steel
NH3	Ammonia sensor (interchangeable)	008-1125-000	MultiRAE IR/ MultiRAE Plus/ QRAE Plus/ VRAE
PH3	Phosphine sensor (interchangeable)	008-1119-000	MultiRAE IR / MultiRAE Plus / QRAE Plus / VRAE / SentryRAE Steel
ClO2	Chlorine dioxide sensor (non-interchangeable)	008-1120-000	VRAE
CO2	Carbon dioxide sensor (non-interchangeable)	051-0011-000	MultiRAE IR
O2	Oxygen sensor 2 year	008-1161-000	ALL except EntryRAE/ QRAE II
O2	SPE oxygen Sensor 2 year for QRAE II	022-0300-000	QRAE II
LEL	Combustible gas sensor	008-1171-001	MultiRAE Plus / QRAE
LEL	Combustible gas sensor	017-1171-000	VRAE / SentryRAE Steel
LEL/%VOL		017-1172-000	VRAE
LEL	Combustible gas sensor	016-1171-000	QRAE Plus
LEL/%VOL		016-1172-000	QRAE Plus
Dummy sensor block (pack of 5)		008-2009-005	MultiRAE Plus / QRAE Plus / SentryRAE Steel / VRAE

Power Supplies, Batteries, & Chargers

Description	Part Number	Works With
Rechargeable, non-intrinsically safe, Li-ion battery pack, 4.8 V, 1350 mAh (red)	500-0038-000	MultiRAE IR
Battery Pack, NI-MH W/ Mini CD	500-0059-000-FRU	MultiRAE Plus / QRAE
Rechargeable NiMH battery pack, 4.8 V, 1250 mAh	012-3051-000E	VRAE
Rechargeable Li-ion battery pack, 3.6 V, 2400 mAh	015-3053-000	QRAE Plus
One-unit external charger for QRAE Plus Li-ion battery pack	015-3059-000	QRAE Plus
Four-unit external charger for QRAE Plus Li-ion battery pack	015-3059-400	QRAE Plus
Alkaline battery adapter (4 AA batteries)	500-0029-000	MultiRAE Plus / QRAE
Alkaline battery adapter (4 AA batteries)	012-3052-000	VRAE
Alkaline battery adapter (3 AA batteries)	015-3052-001	QRAE Plus
Universal wall charging adapter, 110 VAC to 240 VAC, 12 VDC, with international plug kit	500-0036-100	MultiRAE Plus / QRAE / VRAE
Automotive charging adapter (12 V)	003-3004-000	ALL except SentryRAE Steel
Universal 110 – 230 V AC-DC adaptor, Euro plug	500-0070-100	ALL
ATEX barrier box (required to maintain ATEX certification) when utilizing a wall charging adapter	500-0072-100	UltraRAE / ppbRAE Plus / MiniRAE 2000 / QRAE Plus

Probes & Tubing

Description	Part Number	Works With
Remote Tygon sample draw kit for pump-equipped multi-sensor instruments. Kit includes a stiff 10" (26 cm) aluminum sample probe with replaceable particulate and hydrophobic barrier filters, 3 hydrophobic barrier filters, 15′ (5 m) Tygon tubing with Luer style quick connect fittings. (Not for use with reactive gases or with PID equipped instruments.)	008-3015-100	All exceptPID-equipped instruments
Remote Teflon sample draw kit for pump equipped multi-sensor instruments. Kit includes a stiff 10" (26 cm) aluminum sample probe with replaceable particulate and hydrophobic barrier filters, 3 hydrophobic barrier filters, 10′ (3 m) self-coiling Teflon tubing with Luer-style quick-connect fittings. (For use with PID equipped instruments)	008-3015-200	ALL
Inlet probe 3" (7.6 cm)	008-3012-001	MultiRAE Plus / QRAE / QRAE Plus
Collapsible, aluminum Remote Access Probe with insulated handle and Teflon tubing 6.5′ (2 m). Probe Expands to 35".	008-3015-001	ALL
Collapsible, remote probe with 15′ (5 m) of tubing	008-3015-000	MultiRAE Plus / QRAE Plus
Teflon tubing 1/16" ID (1.6mm) (10 feet or 3 metres)	411-0008-000-10	ALL
Tygon tubing 1/8" ID (3 mm) (10 feet or 3 metres)	411-0018-037-10	ALL, Except PIDs
FEP-lined Tygon tubing ¼" OD, 1/8" ID (5 feet or 1,5 metre)	411-0025-037-05	ALL
Tygon to Teflon Fitting (pack of 5)	002-2044-005	ALL
15′ (5 m) Tygon tubing w/ male Luer fitting	008-3012-150	QRAE/QRAE Plus/ VRAE
15′ (5 m) Teflon tubing w/ male Luer fitting	008-3012-151	ALL
15′ (5 m) Teflon lined Tygon tubing ¼" OD, 1/8" ID w/ male Luer fitting	008-3012-152	QRAE/QRAE Plus/ VRAE
Rubber float with sintered metal filter weight	490-0044-000	ALL
15′ (5 m) Tygon tubing, adapter, rubber float with sintered metal filter weight	008-3012-015	QRAE / QRAE Plus / SentryRAE Steel / VRAE
Hand pump	020-3413-000	QRAE II Diffusion
Constant-flow hand pump adapter w/o float, 15′ (5 m) Tygon tubing	008-3004-001	MultiRAE Plus
Constant-flow hand pump, 15′ (5 m) Tygon tubing, adapter, rubber float with sintered metal filter weight	008-3004-000	Diffusion QRAE and QRAE Plus
Dilution fitting (nominal 5:1)	008-3025-000	ALL
Dilution fitting (nominal 1:1)	008-3026-000	ALL
Pumped monitor calibration adapter	015-3008-100	QRAE Plus
Diffusion monitor calibration adapter	015-3009-000	QRAE Plus
Pumped monitor calibration adapter	008-3016-000	MultiRAE +/ QRAE

Filters & Special Attachments

Description	Part Number	Works With
External 25 mm filters (pack of 10) (without adapter)	008-3022-010	MultiRAE Plus / QRAE
External 25 mm filters (pack of 100) (without adapter)	008-3022-100	MultiRAE Plus / QRAE
External 25 mm filter with adapter (pack of 5) (for barbed fittings)	008-3014-005	MultiRAE Plus / QRAE
External 25 mm filters (pack of 10) (without adapter)	046-3022-010	QRAE Plus / EntryRAE
Charcoal filter for CO sensor (pack of 10)	008-3006-010	ALL
Charcoal filter for CO sensor (pack of 20)	008-3006-020	ALL
Green dust filters (pack of 30)	002-2025-030	MiniRAE Plus Classic / IAQRAE
Female Luer connector (pack of 25)	400-0072-025	MultiRAE Plus / QRAE
Male Luer connector (pack of 20)	400-0073-020	MultiRAE Plus / QRAE
Porous metal filter and O-ring kit (pack of 5)	011-3006-000	VRAE
External zeroing organic filter	008-3024-000	MultiRAE Plus
KIT,ADHESIVE TAPE RING AND FILTER, 4R LEL SENSOR	008-3058-000	4R LEL Sensor
KIT, ADHESIVE TAPE RING AND FILTER, 3R LEL SENSOR	014-3203-000	3R LEL Sensor
RING,ADHESIVE TAPE, 4R LEL SENSOR, PACK OF 10	008-2126-010	4R LEL Sensor
FILTER ASSY, 4R LEL SENSOR, PACK OF 10	008-3056-010	4R LEL Sensor
RING,ADHESIVE TAPE, 3R LEL SENSOR, PACK OF 10	014-2020-010	3R LEL Sensor
FILTER ASSY, 3R LEL SENSOR, PACK OF 10	014-3202-010	3R LEL Sensor

Accessories & Alarms

Description	Part Number	Works With
Case, hard case with foam (14"x12.5"x4.25")	008-3040-000	ALL
Case, hard packing case with foam (18.5"x13"x6.5")	002-3009-000	ALL
Vibration alarm	008-3010-000	MultiRAE Plus / QRAE / VRAE
Earphone alarm, with adapter	008-3009-000	MultiRAE Plus / QRAE / VRAE
MultiRAE Plus rubber boot (yellow)	008-3042-001	MultiRAE Plus
Body Harness	703-0000-000	ALL
QRAE and MultiRAE Plus rubber boot (black)	027-3042-000	MultiRAE Plus / QRAE
VRAE rubber boot (yellow)	012-3042-000	VRAE
QRAE Plus rubber boot (black)	015-3042-000	QRAE Plus
Wrist strap	002-3013-000	MultiRAE Plus / QRAE / VRAE
Tool Kit	081-0005-000	MultiRAE Plus

Software & Training

Description	Part Number	Works With
ProRAE Studio II Instrument Configuration and Data Management Software CD	000-5007-001	ToxiRAE Pro Family, MultiRAE Family, QRAE II, MiniRAE 3000, MiniRAE Lite, UltraRAE 3000, ppbRAE 3000, NeutronRAE II, GammaRAE II R, GammaRAE II R (rechargeable)
ProRAE Suite Software CD for Windows 95, 98 & NT, 2000, XP, and ME	000-5001-000	ALL
USB-to-serial cable	410-0210-000	ALL
Computer Interface Cable	008-3003-000	ALL
ProRAE Suite Software CD with Computer Interface Cable	000-5002-000	ALL
Training CD-ROM, MultiRAE Plus	008-4013-000	MultiRAE Plus
Training CD-ROM, QRAE Plus	028-4013-000	QRAE Plus
Training CD-ROM, QRAE	027-4006-VCD	QRAE
Training CD-ROM, VRAE	017-4006-VCD	VRAE

RAE PID PARTS & ACCESSORIES

Accessories & Sensors for the MiniRAE Lite, MiniRAE 3000, ppbRAE 3000, & UltraRAE 3000

Description	Part Number	Works With
10.6 eV Interchangeable 1/2″ PID lamp	050-0000-004	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
9.8 eV Interchangeable 1/2″ PID lamp	050-0020-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000
11.7 eV Interchangeable 1/2″ PID lamp	050-0001-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000
Rechargeable Lithium-ion battery (intrinsically safe)	059-3051-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000
Rechargeable Lithium-ion battery (NOT intrinsically safe)	059-3053-000	MiniRAE Lite only
Alkaline battery adapter	059-3052-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
Universal wall charging adapter, 110 VAC to 240 VAC, 12 VDC with international plug kit	500-0114-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
Slim Rubber Boot (Yellow), UL/CUL	059-2081-001	MiniRAE 3000
Rubber Boot with straps (Black), UL/CUL	059-3042-001	ppbRAE 3000
Slim Rubber Boot (Red), UL/CUL	059-2083-001	UltraRAE 3000
Slim Rubber Boot (Green)	059-2082-001	MiniRAE Lite
Desktop Charging Cradle (no cables included - PN: 500-0114-000 required for charge)	059-3059-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
Travel Charger (no cables included - PN: 500-0114-000 required for charge)	059-3014-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
PC Communications Cable (USB 2.0, Male A to Male B)	410-0086-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
Sensor Assembly	023-3010-001	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
THP sensor kit	023-3011-000-FRU	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
Hard Case Kit, MiniRAE Lite, universal accessories with gas and flow regulator	059-9100-100	MiniRAE Lite
Hard Case Kit, MiniRAE3000, universal accessories with gas and flow regulator	059-9120-100	MiniRAE3000
Hard Case Kit, ppbRAE3000, universal accessories with gas and flow regulator	059-9140-100	ppbRAE 3000
Hard Case Kit, UltraRAE3000, universal accessories with gas and flow regulator	059-9160-100	UltraRAE 3000
Hard Case Kit, MiniRAE Lite, universal accessories without gas and flow regulator	059-9100-000	MiniRAE Lite
Hard Case Kit, MiniRAE3000, universal accessories without gas and flow regulator	059-9120-000	MiniRAE3000
Hard Case Kit, ppbRAE3000, universal accessories without gas and flow regulator	059-9140-000	ppbRAE 3000
Hard Case Kit, UltraRAE3000, universal accessories without gas and flow regulator	059-9160-000	UltraRAE 3000
Hard Case with Custom Foam	059-3009-000	MiniRAE3000 / ppbRAE3000 / UltraRAE3000 / MiniRAE Lite
Tube adapter assembly	059-3015-000	UltraRAE3000
Tube adapter maintenance kit for UltraRAE3000 - does not include the tube adapter	059-3008-600-FRU	UltraRAE3000

Accessories & Calibration Kits

Description	Part Number	Works With
Accessories and Calibration Kit (no monitor)	007-9200-100	ToxiRAE Plus PID
Accessories and Calibration Kit (no monitor)	011-9100-100	MiniRAE 2000
Accessories and Benzene Calibration Kit (no monitor)	012-9100-100	UltraRAE
Accessories and Calibration Kit (no monitor)	025-9100-100	ppbRAE Plus

Lamps & Tubes
(Lamps for use ONLY with models listed)

Description	Part Number	Works With
ToxiRAE Plus PID Sensor Assembly	007-3007-000	ToxiRAE Plus PID
RAE-Sep VOC Tubes (box of 5)	012-2502-005	UltraRAE
ppbRAE Plus Sensor Assembly	023-0201-000	ppbRAE Plus
Sensor Assembly	023-0301-000	MiniRAE 2000 & UltraRAE
9.8 eV Interchangeable 1/2″ PID lamp	050-0020-000	MiniRAE 3000 / ppbRAE3000 / UltraRAE 3000
10.6 eV Interchangeable 1/2″ PID lamp	050-0000-004	MiniRAE 3000 / ppbRAE3000 / UltraRAE 3000 / MiniRAE Lite
11.7 eV Interchangeable 1/2″ PID lamp	050-0001-000	MiniRAE 3000 / ppbRAE3000 / UltraRAE 3000
9.8 eV Interchangeable 1/2″ PID lamp	050-0020-000	MiniRAE 2000 / UltraRAE
10.6 eV Interchangeable 1/2″ PID lamp	050-0000-000	MiniRAE 2000 / UltraRAE
10.6 eV "Super-bright" 1/2″ PID lamp	050-0000-001	ppbRAE Plus
11.7 eV Interchangeable 1/2″ PID lamp	050-0001-000	MiniRAE 2000 / UltraRAE
9.8 eV Interchangeable 1/4″ PID lamp	050-0030-000	ToxiRAE Plus PID
10.6 eV Interchangeable 1/4″ PID lamp (use only with PGM-30 instruments equipped with version 1.30 firmware or higher)	050-0040-000	ToxiRAE Plus PID
10.6 eV Interchangeable 1/4″ PID lamp (use only with PGM-30 instruments equipped with version 1.27 firmware or lower)	050-0010-000	ToxiRAE Plus PID
11.7 eV Interchangeable 1/4″ PID lamp (in ampoule)	050-0011-001	ToxiRAE Plus PID

Power Supplies, Batteries, & Chargers

Description	Part Number	Works With
Automotive charging adapter 12 VDC	003-3004-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Single unit charging station (cable not included)	007-0210-001	ToxiRAE Plus PID
Rechargeable NiMH battery pack, 4.8 V, 1250 mAh	012-3051-000E	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Alkaline battery adapter for 4 AA batteries	012-3052-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Rechargeable Ni-Cd battery pack, 2.4 V, 1100 mAh	500-0021-001	ToxiRAE Plus PID
Alkaline battery adapter for 2 AAA batteries	500-0022-001	ToxiRAE Plus PID
Wall charging adapter, 120 VAC to 9 VDC	500-0025-000	ToxiRAE Plus PID
Universal wall charging adapter, 110 VAC to 240 VAC, 12 VDC with international plug kit	500-0036-100	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000

Filters & Special Attachments

Description	Part Number	Works With
Green dust filters (pack of 30)	002-2025-030	VRAE
Organic vapour zeroing kit (charcoal filter trap)	002-3008-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
External filters (pack of 5) with 1 metal connector (45 mm, 0.45 mm)	002-3022-005	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
External filters (pack of 10) with 1 metal connector (45 mm, 0.45 mm)	002-3022-010	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
External filters (pack of 100) with 1 metal connector (45 mm, 0.45 mm)	002-3022-100	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Membrane filters (pack of 5)	007-3006-005	ToxiRAE Plus PID
Membrane filters (pack of 30)	007-3006-030	ToxiRAE Plus PID
Filter & O-ring kit (5 porous metal, 9 O-rings)	011-3006-000	MiniRAE 2000/ ppbRAE Plus
Charcoal effluent scrubber	012-3004-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Connector spares kit (lamp housing gasket, 2 metal filters, 2 sensor and probe rubber adapters)	012-3006-000	UltraRAE
Gas outlet port adapter with tubing	012-3009-000	MiniRAE 2000 / ppbRAE Plus
VOC zeroing tube (7-mm O.D.) (box of 10)	025-2000-010	MiniRAE 2000 / ppbRAE Plus
Humidity filtering tubes (7-mm O.D.) (box of 10)	025-2002-010	MiniRAE 2000 / ppbRAE Plus
Adapter for 7-mm O.D. tubes on Flex-I-Probe	025-3002-000	MiniRAE 2000 / ppbRAE Plus
VOC zeroing kit (adapter & box of 10 VOC zeroing tubes)	025-3002-100	MiniRAE 2000 / ppbRAE Plus
Replacement charcoal filter for zeroing kit, pack of 2	081-0003-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Replacement charcoal filter for zeroing kit, pack of 6	081-0004-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Porous metal filters (pack of 5)	490-0047-005	MiniRAE 2000 / ppbRAE Plus

Probes & Tubing

Description	Part Number	Works With
Collapsible, aluminum remote access probe with insulated handle and 6.5' (2 m) of Teflon tubing. Probe expands to 35″ overall length	002-3005-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Dilution fitting (nominal 5:1)	008-3025-000	MiniRAE 2000 / ppbRAE Plus
Dilution fitting (nominal 1:1)	008-3026-000	MiniRAE 2000 / ppbRAE Plus
Tube cap assembly for UltraRAE	012-3020-000	UltraRAE
6″ Flex-I-Probe w/cap	021-2400-000	ppbRAE Plus / MiniRAE 2000
12″ Flex-I-Probe w/cap	021-2500-000	ppbRAE Plus / MiniRAE 2000
Teflon tubing 4 mm O.D. (fits Flex-I- Probe) (10 feet or 3 m)	411-0005-000-10	ALL
Teflon tubing 1/16" ID (1.6 mm) (10 feet or 3 m)	411-0008-000-10	ALL
FEP-lined Tygon tubing 1/4" O.D. x 1/8" I.D. (5 feet or 1.5 m)	411-0025-037-05	ALL

Miscellaneous Accessories

Description	Part Number	Works With
Case, hard-sided case with foam (14" x 12.5" x 4.25")	008-3040-000	ALL
Case, hard-sided packing case with foam (18.5" x 13" x 6.5")	002-3009-000	ALL
Lamp Cleaning Kit (includes methanol cleaning solution)	081-0002-000	ALL
Tedlar Bag, 3 Litre	500-0003-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Earphone alarm, with adapter	008-3009-000	QRAE / MultiRAE Plus / UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
Wrist strap	002-3013-000	MultiRAE Plus / QRAE / VRAE
ppbRAE Plus Black rubber boot	025-3042-000	ppbRAE Plus
7000 Series Yellow rubber boot	012-3042-000	UltraRAE/ VRAE/ ppbRAE Plus/ MiniRAE 2000
Training CD, MiniRAE 2000	011-4006-VCD	MiniRAE 2000
Analog output cable for ppbRAE Plus / MiniRAE2000	012-3033-001	ppbRAE Plus / MiniRAE2000
Computer interface cable	008-3003-000	UltraRAE / VRAE / ppbRAE Plus / MiniRAE 2000
ProRAE Suite software package for Windows	000-5001-000	ALL
Tool Kit (Phillips-head screwdriver, 8 mm & 12 mm spanners for connecting probe parts)	081-0008-000	UltraRAE
ToxiRAE Plus PID protective rubber boot	007-3042-100	ToxiRAE Plus PID

BW SINGLE & MULTI-GAS ACCESSORIES

Confined Space Kit & Carrying Accessories

Description	Part Number	Works With
GasAlertMicroClip XT deluxe confined space kit (Detector, calibration gas and motorized sampling pump sold separately)	MC-CK-DL	GasAlert MicroClip XT
GasAlertMax XT II deluxe confined space kit (Detector and calibration gas sold separately)	XT-CK-DL	GasAlertMax XT II
GasAlertMicro 5 Series deluxe confined space kit (Detector and calibration gas sold separately)	M5-CK-DL	GasAlert Micro 5 Series
Carrying case for GasAlertMicroClip XT with foam and lid insert	MC-CK-CC	GasAlert MicroClip XT
Carrying case for motorized sampling pump and/or the detector	SPAK-CC1	GasAlert MicroClip XT/ GasAlert Micro/ GasAlert Extreme
Carrying case for GasAlertMax XT II with foam insert	XT-CK-CC	GasAlert Max XT II
Carrying case for GasAlertMicro 5 Series with foam and lid insert	M5-CK-CC	GasAlert Micro 5 Series
Black leather and PVC carrying holster	MC-LC-1	GasAlert MicroClip XT
Carrying holster	GA-HMC	GasAlert MicroClip XT
Carrying holster for belt	GA-HMIC	GasAlert Micro
Chest harness	GA-CH-2	GasAlert MicroClip XT/ GasAlert Micro/ GasAlert Max XT II/ GasAlert Micro 5 Series
Extension strap (4 ft./1.2 m)	GA-ES-1	GasAlert MicroClip XT/ GasAlert Micro/ GasAlert Max XT II/ GasAlertClip Extreme/ GasAlert Extreme/ GasAlert Micro 5 Series
Concussion-proof boot with stainless steel alligator-style clip	GA-BXT	GasAlert Max XT II
Concussion-proof boot with stainless steel alligator-style clip	GA24-BALERT	GasAlertClip Extreme
Concussion-proof boot with stainless steel alligator-style clip	GA-BALERT	GasAlert Extreme
Concussion-proof boot, diffusion units	GA-BM5-1	GasAlert Micro 5 Series
Concussion-proof boot, pump units	GA-BM5-2	GasAlert Micro 5 Series
Splash guard filters, kit of 5 for use with concussion-proof boot (GA24-BALERT)	GA-BSPLASH-K	GasAlertClip Extreme/ GasAlert Extreme
Alligator-style clip (non-conductive)	GA-AG-1	GasAlertClip Extreme/ GasAlert Extreme
Alligator-style clip (stainless steel)	GA-AG-2	GasAlertClip Extreme/ GasAlert Extreme/ GasAlert Micro 5 Series
Hard hat clip (non-conductive)	GA-HC-1	GasAlertClip Extreme/ GasAlert Extreme

Rechargeable Battery Pack Options & Spares

Description	Part Number	Works With
Multi-unit (5) cradle charger	MC-C01-MC5	GasAlert MicroClip XT
Multi-unit power adaptor	GA-PA-1-MC5	GasAlert MicroClip XT
12-24 VDC vehicle power adaptor	GA-VPA-1	GasAlert MicroClip XT
12-24 VDC direct-wire power adaptor	GA-PA-3	GasAlert MicroClip XT
Replacement power adaptor	GA-PA-1-NA	GasAlert MicroClip XT
Multi-unit (5) cradle charger	XT-C01-MC5	GasAlert Max XT II
Multi-unit power adaptor	GA-PA-1-MC5	GasAlert Max XT II
12-24 VDC vehicle power adaptor	GA-VPA-1	GasAlert Max XT II
12-24 VDC direct-wire power adaptor	GA-PA-3	GasAlert Max XT II
Replacement power adaptor	GA-PA-1-NA	GasAlert Max XT II
Alkaline battery pack, yellow*	M5-BAT0501	GasAlert Micro 5 Series
Alkaline battery pack, black*	M5-BAT0501B	GasAlert Micro 5 Series
Alkaline battery pack, European-style safety screws, yellow*	M5-BAT0502	GasAlert Micro 5 Series
Alkaline battery pack, European-style safety screws, black*	M5-BAT0502B	GasAlert Micro 5 Series
Lithium polymer rechargeable battery pack, yellow*	M5-BAT08	GasAlert Micro 5 Series
Lithium polymer rechargeable battery pack, black*	M5-BAT08B	GasAlert Micro 5 Series
Cradle charger and rechargeable battery pack, yellow*	M5-C01-BAT08	GasAlert Micro 5 Series
Cradle charger and rechargeable battery pack, black*	M5-C01-BAT08B	GasAlert Micro 5 Series
Cradle charger for rechargeable battery packs	M5-C01	GasAlert Micro 5 Series
Battery latch, replacement	M5-BL-1	GasAlert Micro 5 Series
12 VDC vehicle adaptor cable for use with cradle charger (M5-C01)	GA-V-CHRG4	GasAlert Micro 5 Series
Rechargeable lithium polymer battery pack (for use with GasAlertMicro 5 Series detectors with green circuit boards), yellow or black	M5-BAT07 M5-BAT07B	GasAlert Micro 5 Series

Sampler Paks

Description	Part Number
SamplerPak motorized sampling pump kit with alkaline batteries	GA-SPAK
Deluxe SamplerPak motorized sampling pump kit with alkaline batteries, rechargeable batteries and battery charger	GA-SPAK-NA

Sampling Accessories & Replacements

Description	Part Number
Collapsible sample probe (3.3 ft./1 m)	SP-CPROB1
Collapsible sample probe (14 ft./4.3 m)	SP-CPROB14
Collapsible sample probe with handle (3.3 ft./1 m)	GA-CPROB1
Collapsible sample probe with handle (6 ft./1.8 m)	GA-CPROB2
Replacement Sampler pump filters, kit of 5	SP-PF-1
Metallic sintered particulate filter	GA-MFILTER
Replacement sample tube (4.65 in./11.8 cm) with barbed fitting	SP-T2-S
Replacement sample tube (10.25 in./26 cm) with barbed fitting	SP-T2-M
Replacement pump gaskets for Sampler, kit of 5	SP-GK-1
Replacement plastic fitting for Sampler/ instrument hose, kit of 5	SP-HF-1
Replacement coiled connector tubing for Sampler	SP-CT-1
Replacement Sampler motorized sampling pump	GA-SP01
Sample probe with hydrophobic and particulate filters (1 ft./0.3 m)	GA-PROB1-1
Filter and gasket replacements for sample probe (GA-PROB1-1)	GA-PROB-FIL-K1
BW syringe filter replacements for sample probe (GA-PROB1-1)	GA-SFIL
BW syringe filter kit (kit of 20) replacements for sample probe (GA-PROB1-1)	GA-SFIL-K1
Replace particulate filter for GA-PROB1-1 (Kit of 25)	GA-PROB-PFIL-K25
Quick connect fitting spares for hoses, kit of 2	M0931K
Sampling float	GA-FLOAT
Hydrophobic filter replacement with male connector for manual aspirator pumps	D4-WT-1
Water trap with barbed connectors	WT-2

Carrying Accessories

Description	Part Number
Carrying holster for Sampler	GA-HSAMP
Replacement carrying case with foam for SamplerPak portable kits	SPAK-CC1

Manual Aspirator Pumps

Description	Part Number
Manual aspirator pump kit with probe (1 ft./0.3 m) Compatible with GasAlert Extreme and GasAlertMicro 5 Series	GA-AS02
Manual aspirator pump kit with probe (1 ft./0.3 m) Compatible with GasAlertMicroClip XT	MC-AS01

Sampling Hoses for Manual Aspirator Pumps

Description	Part Number
Sampling hose (10 ft./3 m) with particulate filter	HOSE1-10
Sampling hose (20 ft./6.1 m) with particulate filter	HOSE1-20
Sampling hose (65 ft./19.8 m) with particulate filter	HOSE1-65
Sampling hose (75 ft./22.8 m) with particulate filter	HOSE1-75

Datalogging Accessories

Description	Part Number	Works With
IR DataLink USB adaptor	GA-USB2	GasAlertClip Extreme/GasAlert Extreme
IR connectivity kit with Soft Tools software	MC-TC-1	GasAlert MicroClip XT
IR connectivity kit with Fleet Manager II software	GA-USB1-IR	GasAlert Max XT II
MultiMedia card	GAMIC-MMC	GasAlert Micro
MultiMedia card	M5-MMC	GasAlert Micro 5 Series
USB memory card reader	CR-MMC-USB1	GasAlert Micro/ GasAlert Micro 5 Series

Replacement Sensors

Part Number	Sensors (all Products)
D4-RHM04	Twin Tox sensor - Carbon Monoxide(CO) and Hydrogen Sulfide(H2S)
PS-RH04S	Hydrogen Sulfide(H2S) sensor
PS-RM04	Carbon Monoxide(CO) sensor
PS-RM04H	Carbon Monoxide(CO) sensor H2 Resistant
SR-B04	Carbon Dioxide (IR) sensor
PS-RS04	Sulphur Dioxide(SO2) sensor
PS-RC10	Chlorine(Cl2) sensor
PS-RZ10	Hydrogen Cyanide(HCN) sensor
PS-RD04	Nitrogen Dioxide(NO2) sensor
SR-A04	Ammonia(NH3) sensor
SR-A204	Ammonia(NH3) sensor extended range
SR-P04	Phosphine(PH3) sensor
SR-E04	Ethylene Oxide(ETO) sensor
SR-G04	Ozone(O3) sensor
SR-N04	Nitric Oxide (NO) sensor
SR-V04	Chlorine Dioxide(ClO2) sensor
SR-Q07	VOC PID sensor, 10.6ev, 32 mm
SR-W04	Combustible(0-100%LEL) sensor (standard)*
SR-DUMM1	Dummy Sensor for 3-pin O2 or 3-pin TwinTox
SR-DUMM2	Dummy Sensor for LEL
SR-DUMM3	Dummy Sensor for PID sensor
SR-H-MC	Hydrogen Sulphide (H2S) MICRO cel Sensor (MicroClip)
SR-M-MC	Carbon Monoxide (CO) MICRO cel Sensor (MicroClip)

Pump Kits & Accessories

Description	Part Number	Works With
Quick connect fitting spares for hoses, kit of 2	M0931K	GasAlert Max XT II
Auxiliary filter for GasAlertMax XT II pump, kit of 5	M5-AF-K2	GasAlert Max XT II
Auxiliary filter for GasAlertMax XT II pump, kit of 100	M5-AF-K2-100	GasAlert Max XT II
Hydrophobic pump filter replacement, kit of 5	XT-RF-H5	GasAlert Max XT II
Hydrophobic pump filter replacement, kit of 50	XT-RF-H50	GasAlert Max XT II
Hydrophobic pump filter replacement, kit of 100	XT-RF-H100	GasAlert Max XT II
Particulate pump filter replacement, kit of 5	GA-PFMAX	GasAlert Max XT II
Particulate pump filter replacement, kit of 50	GA-PFMAX-50	GasAlert Max XT II
Particulate pump filter replacement, kit of 100	GA-PFMAX-100	
Integral motorized pump kit • Yellow • Black Includes motorized pump cover, 1 ft./30 cm sample probe with hydrophobic barrier (water trap) and particulate filters, 5 ft./1.5 m sampling tubing, three spare particulate filters and one spare water trap filter.	M5-PUMP M5-PUMPB	GasAlert Micro 5 Series
Auxiliary pump filter compatible with hose	M5-QCONN-K1	GasAlert Micro 5 Series
Auxiliary pump filter • Kit of 5 • Kit of 100	M5-AF-K2 M5-AF-K2-100	GasAlert Micro 5 Series
Test cap and hose (1 ft./0.3 m) replacement	MC-TC-1	GasAlert MicroClip XT
Test cap and hose (1 ft./0.3 m) replacement	GA-TC-1	GasAlertClip Extreme/ GasAlert Extreme
Test cap (dual barb) and hose (1.5 ft./0.5 m) replacement	GAMIC-TC-1	GasAlert Micro
Test cap (single barb) and hose (1.5 ft./0.5 m) for use with manual aspirator pump (GAMIC-AS02)	GAMIC-TC-2	GasAlert Micro
Test cap and hose (1.5 ft./0.5 m) replacement	M5-TC-1	GasAlert Micro 5 Series

Pelican Cases

Protect your monitors with dependable, customizable cases from Pelican. Built with engineering-grade polymers, Pelican Cases are the toughest on the market and offer over 50 models of all sizes. They feature a fully stackable, trademarked "Dual Band" design and an automatic pressure equalization valve that keeps moisture out and prevents vacuum lock so the case is easy to open at any altitude.

Features:
- Watertight to a depth of 3.3 feet for up to 30 minutes
- Pick 'N' Pluck™ foam lets you customize the interior according to your gear
- Stainless steel ball bearing wheels (on select cases) last longer and ride smoother
- Metal reinforced padlock protectors provide added strength and extra security against cutting and theft

MICRO CASE SERIES™

| i1010 | i1015 | 1010 | 1015 | 1020 | 1030 | 1040 | 1050 | 1060 |

Protect your player while using it via the external headphone jack.

All Micro Cases come standard with rubber liner. Pick N Pluck™ foam inserts are available.

MEMORY CARD CASE

Water resistant case stores and protects memory cards.

CAT. NO. 0910
- Stores 8 SD cards and 16 mini SD cards

CAT. NO. 0940
- Stores 4 compact flash cards

SMALL CASES

| 1120 | 1150 | 1170 | 1200 | 1300 | 1400 |

MEDIUM CASES

| 1450 | 1460 | 1500 | 1510 | 1520 | 1550 |

CAT. NO. 1460EMS
- Custom configured lid organizer and trays for EMS professionals.
- 1460 also available in standard configurations: foam or no foam.

CAT. NO. 1500EMS
- Custom configured lid organizer and trays for EMS professionals.

CAT. NO. 1510LOC (Laptop Overnight Case)
- Fully enclosed apparel insert, padded laptop sleeve, and accessory pouch.
- 1510 also available in standard configurations: foam, no foam, padded dividers

CAT. NO. 1550EMS
- EMS configuration available

LAPTOP CASES

| 1080/1090 Hardback™ Case | 1470 | 1490 | 1495 | 1430 | 1440 |

Double safety locking latches with keys for 1470 and 1490 cases

Shown with computer case liner

CAT. NO. 1490CC#1
- Lid organizer, fitted shock absorbing tray, and removable shoulder strap

CAT. NO. 1490CC#2
- Pick N Pluck™ foam, lid organizer and Removable shoulder strap

CAT. NO. 1495CC#1
- Lid organizer, shock absorbing tray, nylon padded computer sleeve, accessories pouch, and removable shoulder strap

CAT. NO. 1495CC#2
- Pick N Pluck™ foam, lid organizer and Removable shoulder strap

CAT. NO. 1434
- Case with padded dividers and lid organizer

CAT. NO. 1437
- Case with padded office divider set and lid organizer

CAT. NO. 1444
- Case with utility padded divider set and lid organizer

CAT. NO. 1447
- Case with padded office divider set and lid organizer

LARGE CASES

1560	1600	1610	1620		1630	1640

CAT. NO. 1564
• 1560 case with padded dividers

CAT. NO. 1600EMS
• EMS configuration available

CAT. NO. 1624
• 1620 case with padded dividers

LARGE CASES

1650	1660	1690	1730

LARGE CASES

1780T	0370	0350	0340	0450	0500	0550

CAT. NO. 0357
(For 0350 and 0370 cases)
• Four removable casters, mounting plates and pull strap with nylon carry bag

CAT. NO. 0507
(For 0500 case)
• Four removable casters and mounting plates

CAT. NO. 0508
(For 0500 case)
• Four removable pallet risers and mounting plates

LONG CASES

1740	1700	1720	1750	1770	1780W

CAT. NO. 1780W
• Case with Rifle Hard Liner Insert

CAT. NO. 1780WRF
• Case with Rifle Foam Cut Insert

Wheeled Protector Case™

* case contents not included