

# Multi-Gas Monitors

## QRAE II Multi Gas Detector

### QRAE II Model PGM-2400

The QRAE II is a versatile diffusion or pumped one-to-four gas monitor for detection of combustibles, oxygen, hydrogen sulfide, or carbon monoxide. Standard features include easy-to-change battery packs, easy access to sensors, internal vibrating alarm, loud 95dB audible alarm, and a water-resistant IP65 case design. The durable, rechargeable, Lithium-ion battery delivers up to 14 hours of continuous operation in diffusion mode (a spare alkaline battery adapter is included for 10 hour back-up operation). The QRAEII (v2.05 or later) offers the operational flexibility to change between diffusion and pump models.

Our patented SPE O2 sensor provides extra life performance with a RoHS compliant lead-free design. The QRAEII includes datalogging storage capacity for download to PC-compatible computers with Windows™ 95, 98, 2000, NT, ME and XP.

#### Monitor only includes:

- Monitor as specified
- Sensors as specified
- Alkaline adapter (Back-up operation)
- Internal filters
- Rechargeable Li-Ion units include:
  - Charging/download cradle with computer cable
  - Lithium-ion battery pack
  - Universal wall Adapter
- CD ROM with user manual and ProRAE Studio
- Quick start guide
- Shipping case
- Calibration adapter (diffusion model only)
- Water trap filter (pump model only)

#### Bulk package of 10 includes:

- 10 monitors as specified with calibration certificate
- 10 calibration cap and 2 Allen wrench service tools
- 2 quickstart guide and 2 CD's
- **DOES NOT INCLUDE CHARGING CRADLES** (multi-unit charger needs to be ordered separately)

#### Optional Accessories Kit (CSK1) adds:

- Hard transport case with pre-cut foam
- Tool Kit
- Hand pump
- 10" stiff aluminum Sample probe with replaceable filter
- 6 feet (2 meters) Tygon® tubing
- Water Trap filter (pack of 3)

#### Optional Confined Space Kit (CSK2) adds:

- Four-gas mix in a 34L cylinder part number 600-0050-007 (50% LEL, 18% O2, 10 ppm Hydrogen Sulfide, 50 ppm Carbon Monoxide)
- Regulator and tubing
- Cal gas cylinder ( )



**Note: Only QRAE 2 diffusion is compatible with AutoRAE station. QRAE 2 pumped is currently NOT compatible with AutoRAE station.**

### QRAE II (PGM-2400) standard configurations (pack of one)

Description	PART NUMBER	LIST PRICE
QRAE II diffusion LEL CSA-UL / O <sub>2</sub> / H <sub>2</sub> S 100 ppm / CO - Alkaline only	020-1111-1A0	\$545.00
QRAE II diffusion LEL CSA-UL / O <sub>2</sub> / H <sub>2</sub> S 100 ppm / CO - Li-Ion rechargeable	020-1111-0A0	\$595.00
QRAE II pumped LEL CSA-UL / O <sub>2</sub> / H <sub>2</sub> S 100 ppm / CO - Li-Ion rechargeable	020-1111-2A0	\$695.00

### QRAE II (PGM-2400) Bulk package (pack of 10)

Description	PART NUMBER	LIST PRICE
10-units package QRAE II diffusion LEL CSA-UL/ O <sub>2</sub> / H <sub>2</sub> S 100 ppm/ CO - Alkaline	020-1111-1AA	\$4,495.00
10-units package QRAE II diffusion LEL CSA-UL/ O <sub>2</sub> / H <sub>2</sub> S 100 ppm/ CO - Li-Ion	020-1111-0AA	\$4,995.00
10-units package QRAE II pumped LEL CSA-UL/ O <sub>2</sub> / H <sub>2</sub> S 100 ppm/ CO - Li-Ion	020-1111-2AA	\$6,395.00
Multi Unit charger (5 QRAE II cradles)	020-3461-005	\$395.00

# QRAE II Monitors

## QRAE II, PGM-240

<b>A</b>	<b>Interchangeable TOX 1 Sensor</b>				
0	Empty	Dummy sensor	+	\$	\$0 00
1	H <sub>2</sub> S	Hydrogen Sulfide 1-100 ppm	+	\$	\$55.00
2	H <sub>2</sub> S	Hydrogen Sulfide 3-1000 ppm (available 2009)	+	\$	\$55.00
<b>B</b>	<b>Interchangeable TOX 2 Sensor</b>				
0	Empty	Dummy sensor	+	\$	\$0 00
1	CO	Carbon Monoxide	+	\$	\$55.00
2	SO <sub>2</sub>	Sulfur Dioxide (available 2009)	+	\$	\$95.00
<b>C</b>	<b>Interchangeable Combustible Sensors</b>				
0	Empty	Dummy sensor	+	\$	\$0 00
1	LEL	CSA/UL	+	\$	\$55.00
<b>D</b>	<b>Oxygen sensor SPE</b>				
0	Empty	Dummy sensor	+	\$	\$0 00
1	O <sub>2</sub> SPE	Oxygen	+	\$	\$55.00
<b>E</b>	<b>Pumps, Batteries, Chargers, Certification</b>				
0	Diffusion, rechargeable Li-Ion battery, universal wall adapter		+	\$	\$375 00
1	Diffusion, alkaline batteries, (must be configured with 2 sensors min.)		+	\$	\$325 00
2	Pump, rechargeable Li-ion battery, universal wall adapter		+	\$	\$475 00
<b>F</b>	<b>Languages</b>				
A	English		+	\$	\$0 00

020 - **A** **B** **C** **D** - **E** **F** **0**

**Total**

### QRAE II Configurator Guide

From the table above, select one option from each Feature Group, **A** through **G**, to build a complete model number:

**020** - **A** **B** **C** **D** - **E** **F** **G**  
 QRAE II      TOX 1 Sensor      TOX 2 Sensor      LEL Sensor      SPE O<sub>2</sub> Sensor      Pump / Batteries / certification      Language      Always 0

## QRAE II Monitors

### Accessories/Sensors for QRAE II Monitors

DESCRIPTION	RAE PART #	List Price
Calibration / Flow through Adapter	020-3412-000	\$37.00
Charging/download Station for QRAE II (without charger & cable)	020-3461-000	\$205.00
Universal wall adapter, 110 VAC to 240 VAC, 12 VDC, with international plug kit	500-0036-100	\$37.00
Re-chargeable Lithium-ion battery	020-3402-000	\$163.00
Alkaline battery adapter	020-3403-000	\$13.00
Computer interface cable 9 pin male to female.	029-3003-000	\$42.00
Cable adapter (USB to serial)	410-0210-000	\$104.00
CSK1 (does not include monitor)	410-0210-010	\$205.00
CSK2 (does not include monitor)	410-0210-020	\$615.00
4-gas calibration mix, 34 L aluminum cylinder (50% CH <sub>4</sub> , 18% O <sub>2</sub> , 10 ppm H <sub>2</sub> S, 50 ppm CO, bal N <sub>2</sub> )	600-0050-007	\$237.00
Constant-Flow regulator, 1 L/min with tubing	007-3021-000	\$226.00
Carbon Monoxide sensor	032-0200-000	\$158.00
Hydrogen Sulfide sensor 0,1-100 ppm	032-0202-000	\$158.00
Hydrogen Sulfide sensor 3-1000 ppm (available 2009)	032-0202-013	\$158.00
Combustible sensor %LEL	014-0212-000	\$158.00
Oxygen SPE sensor,	022-0300-000	\$105.00
Dust Filter (pack of 5) for diffusion model	020-2419-005	\$27.00
Water trap external Filter (pack of 10) for pumped model	008-3022-010	\$21.00
Pump assembly	020-3603-000	\$195.00
Gas plate assembly for pumped model	020-3602-000	\$53.00
CD, QRAEII	000-0020-000	\$27.00