

## VRAE Monitors

### VRAE Model PGM-7800 Series

The VRAE is a powerful, pumped, one- to five-gas monitor capable of monitoring combustibles in the percent by volume range regardless of oxygen levels. The VRAE is capable of monitoring combustibles, oxygen and three toxic gases (PGM-7800) or combustibles and four toxic gases (PGM-7840). Its durable Nickel-Metal-Hydride batteries, powerful internal pump and rugged frame make it ideal for leak detection and site surveys.

### 1-to-5 Gas Surveying Monitor

#### Monitor only includes:

- Shipping case
- VRAE monitor as specified
- Sensors as specified
- Filter & O-ring pack
- 5" Inlet probe
- Gas outlet port adapter
- External filter
- Operation and maintenance manual
- Rubber boot with belt clip
- Alkaline battery adapter
- Rechargeable units additionally include:
  - Nickel-Metal-Hydride (NiMH) battery
  - Universal AC/DC wall adapter with international plug kit

#### Monitor with Accessories Kit adds:

- Hard transport case with pre-cut foam
- 15' (5 m) Tygon<sup>®</sup> tubing
- Tool kit

#### Optional Calibration Kit adds:

- Four-gas Mix in a 34L cylinder: 50% LEL, 20.9% O<sub>2</sub>, 25 ppm Hydrogen Sulfide, 50 ppm Carbon Monoxide
- Calibration Regulator (male) and tubing

#### Datalogging Monitors adds:

- Software ProRAE Suite Package for Windows™ 95, 98, 2000, NT, ME & XP
- Computer Interface cable

**Multi-Gas accessories are listed on pgs. 33-36.**

**Additional calibration systems gas kits, individual gases and regulators are listed on pgs. 45-50.**

### Technical and Application Notes

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Please consult Technical Note TN-114 regarding cross-sensitivity for non-standard sensor configurations.

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These are the most commonly purchased VRAE monitors, with a universal charger and an international plug kit. For other configurations, use the standard configurator on the next page.

### Standard Sensor Configurations

	NiMH / Universal Charger	Accessories Kit	Calibration Kit		
<b>LEL / %VOL / O<sub>2</sub></b>					
				<b>PART NUMBER</b>	<b>LIST PRICE</b>
Unit only	•			018-1100-003	\$1,178.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1100-005	\$1,427.00
Unit with Accessories and Calibration Kit	•	•	•	018-1100-004	\$1,675.00
<b>LEL / %VOL / O<sub>2</sub> / H<sub>2</sub>S</b>					
				<b>PART NUMBER</b>	<b>LIST PRICE</b>
Unit only	•			018-1110-003	\$1,394.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1110-005	\$1,643.00
Unit with Accessories and Calibration Kit	•	•	•	018-1110-004	\$1,891.00
<b>LEL / %VOL / O<sub>2</sub> / CO</b>					
				<b>PART NUMBER</b>	<b>LIST PRICE</b>
Unit only	•			018-1120-003	\$1,394.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1120-005	\$1,643.00
Unit with Accessories and Calibration Kit	•	•	•	018-1120-004	\$1,891.00
<b>LEL / %VOL / O<sub>2</sub> / SO<sub>2</sub></b>					
				<b>PART NUMBER</b>	<b>LIST PRICE</b>
Unit only	•			018-1130-003	\$1,394.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1130-005	\$1,643.00
<b>LEL / %VOL / O<sub>2</sub> / H<sub>2</sub>S / CO</b>					
				<b>PART NUMBER</b>	<b>LIST PRICE</b>
Unit only	•			018-1112-003	\$1,610.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1112-005	\$1,859.00
Unit with Accessories and Calibration Kit	•	•	•	018-1112-004	\$2,107.00
<b>LEL / %VOL / O<sub>2</sub> / H<sub>2</sub>S / CO / SO<sub>2</sub></b>					
				<b>PART NUMBER</b>	<b>LIST PRICE</b>
Unit only	•			018-1112-303	\$1,826.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1112-305	\$2,075.00

Pricing subject to change without notice

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# VRAE Monitors

## VRAE, PGM-7800 Basic Unit

\$718.00

A Combustibles			
0	Empty	Dummy sensor	+ \$ 0.00
1	LEL/%Vol		+ \$ 216.00
2	LEL		+ \$ 194.00
B Non-interchangeable oxygen or Interchangeable TOX 4 Sensor *			
0	Empty	Dummy sensor	+ \$ 0.00
1	O <sub>2</sub>	Oxygen sensor (If no O <sub>2</sub> , instrument is PGM-7840. Not O <sub>2</sub> upgradeable)	+ \$ 133.00
2	H <sub>2</sub> S	Hydrogen Sulfide sensor	+ \$ 216.00
3	CO	Carbon Monoxide sensor	+ \$ 216.00
4	SO <sub>2</sub>	Sulfur Dioxide sensor	+ \$ 216.00
5	HCN	Hydrogen Cyanide sensor	+ \$ 436.00
6	PH <sub>3</sub>	Phosphine sensor	+ \$ 436.00
C Interchangeable TOX 1 Sensor			
0	Empty	Dummy sensor	+ \$ 0.00
1	H <sub>2</sub> S	Hydrogen Sulfide sensor	+ \$ 216.00
2	CO	Carbon Monoxide sensor	+ \$ 216.00
3	SO <sub>2</sub>	Sulfur Dioxide sensor	+ \$ 216.00
4	NO	Nitric Oxide sensor	+ \$ 216.00
5	NO <sub>2</sub>	Nitrogen Dioxide sensor	+ \$ 216.00
6	Cl <sub>2</sub>	Chlorine sensor	+ \$ 216.00
7	HCN	Hydrogen Cyanide sensor	+ \$ 436.00
8	NH <sub>3</sub>	Ammonia sensor	+ \$ 436.00
9	PH <sub>3</sub>	Phosphine sensor	+ \$ 436.00
A	ClO <sub>2</sub>	Chlorine dioxide**	+ \$ 546.00
D Interchangeable TOX 2 Sensor			
0	Empty	– dummy sensor	+ \$ 0.00
1	H <sub>2</sub> S	Hydrogen Sulfide sensor	+ \$ 216.00
2	CO	Carbon Monoxide sensor	+ \$ 216.00
3	SO <sub>2</sub>	Sulfur Dioxide sensor	+ \$ 216.00
4	NO	Nitric Oxide sensor	+ \$ 216.00
5	NO <sub>2</sub>	Nitrogen Dioxide sensor	+ \$ 216.00
6	Cl <sub>2</sub>	Chlorine sensor	+ \$ 216.00
7	HCN	Hydrogen Cyanide sensor	+ \$ 436.00
8	NH <sub>3</sub>	Ammonia sensor	+ \$ 436.00
9	PH <sub>3</sub>	Phosphine sensor	+ \$ 436.00
E Interchangeable TOX 3 Sensor			
0	Empty	– dummy sensor	+ \$ 0.00
1	H <sub>2</sub> S	Hydrogen Sulfide sensor	+ \$ 216.00
2	CO	Carbon Monoxide sensor	+ \$ 216.00
3	SO <sub>2</sub>	Sulfur Dioxide sensor	+ \$ 216.00
4	NO	Nitric Oxide sensor	+ \$ 216.00
5	NO <sub>2</sub>	Nitrogen Dioxide sensor	+ \$ 216.00
6	Cl <sub>2</sub>	Chlorine sensor	+ \$ 216.00
7	HCN	Hydrogen Cyanide sensor	+ \$ 436.00
8	NH <sub>3</sub>	Ammonia sensor	+ \$ 436.00
9	PH <sub>3</sub>	Phosphine sensor	+ \$ 436.00
F Batteries, Chargers			
0	Rechargeable NiMH battery, universal wall adapter		+ \$ 111.00
1	Obsolete		
2	Alkaline batteries		+ \$ 0.00
3	Rechargeable NiMH battery, no wall adapter		+ \$ 78.00
G Datalogging, Kits			
3	Datalogging monitor, Monitor only		+ \$ 0.00
4	Datalogging monitor, Accessories and 4-gas (O <sub>2</sub> /LEL/CO/H <sub>2</sub> S) Cal Kit		+ \$ 497.00
5	Datalogging monitor, Accessories Kit (no gas or regulator)		+ \$ 249.00

\* Note: The Oxygen sensor is NOT interchangeable with the toxic sensors.

When ordering toxic sensors 3 through 9, please select the lower number first.

\*\*Note: Instruments may NOT be equipped with ClO<sub>2</sub> and H<sub>2</sub>S sensors at the same time.

018 - A B C D - E F G

**Total**

### VRAE Part Number Configurator Guide

<b>018</b>	-	<b>A</b>	<b>B</b>	<b>C</b>	-	<b>E</b>	<b>F</b>	<b>G</b>
VRAE		LEL/% VOL Sensor	O <sub>2</sub> / TOX 4 Sensor	TOX 1 Sensor		TOX 3 Sensor	Battery	Kits / Datalogging