

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® tubing
- Tool kit

Optional Calibration Kit adds:

- Four-gas Mix in a 34L cylinder: 50% LEL, 20.9% O₂, 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

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.

	NIMH / Universal Charger	Accessories Kit	Calibration Kit	PART NUMBER	LIST PRICE
LEL / %VOL / O₂					
Unit only	•			018-1100-003	\$1,119.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1100-005	\$1,356.00
Unit with Accessories and Calibration Kit	•	•	•	018-1100-004	\$1,592.00
LEL / %VOL / O₂ / H₂S					
Unit only	•			018-1110-003	\$1,324.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1110-005	\$1,561.00
Unit with Accessories and Calibration Kit	•	•	•	018-1110-004	\$1,797.00
LEL / %VOL / O₂ / CO					
Unit only	•			018-1120-003	\$1,324.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1120-005	\$1,561.00
Unit with Accessories and Calibration Kit	•	•	•	018-1120-004	\$1,797.00
LEL / %VOL / O₂ / SO₂					
Unit only	•			018-1130-003	\$1,324.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1130-005	\$1,561.00
LEL / %VOL / O₂ / H₂S / CO					
Unit only	•			018-1112-003	\$1,529.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1112-005	\$1,766.00
Unit with Accessories and Calibration Kit	•	•	•	018-1112-004	\$2,002.00
LEL / %VOL / O₂ / H₂S / CO / SO₂					
Unit only	•			018-1112-303	\$1,734.00
Unit with Accessories Kit (no gas or regulator)	•	•		018-1112-305	\$1,971.00

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VRAE, PGM-7800 Basic Unit

\$683.00

A Combustibles

0	Empty – dummy sensor	+ \$	0.00
1	LEL/%Vol	+ \$	205.00
2	LEL	+ \$	184.00

B Non-interchangeable oxygen or Interchangeable TOX 4 Sensor *

0	Empty – dummy sensor	+ \$	0.00
1	O ₂ Oxygen sensor (If no O ₂ , instrument is PGM-7840. Not O ₂ upgradeable)	+ \$	126.00
2	H ₂ S Hydrogen Sulfide sensor	+ \$	205.00
3	CO Carbon Monoxide sensor	+ \$	205.00
4	SO ₂ Sulfur Dioxide sensor	+ \$	205.00
5	HCN Hydrogen Cyanide sensor	+ \$	415.00
6	PH ₃ Phosphine sensor	+ \$	415.00

*** 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 ClO₂ and H₂S sensors at the same time.**

C Interchangeable TOX 1 Sensor

0	Empty – dummy sensor	+ \$	0.00
1	H ₂ S Hydrogen Sulfide sensor	+ \$	205.00
2	CO Carbon Monoxide sensor	+ \$	205.00
3	SO ₂ Sulfur Dioxide sensor	+ \$	205.00
4	NO Nitric Oxide sensor	+ \$	205.00
5	NO ₂ Nitrogen Dioxide sensor	+ \$	205.00
6	Cl ₂ Chlorine sensor	+ \$	205.00
7	HCN Hydrogen Cyanide sensor	+ \$	415.00
8	NH ₃ Ammonia sensor	+ \$	415.00
9	PH ₃ Phosphine sensor	+ \$	415.00
A	ClO ₂ Chlorine dioxide**	+ \$	520.00

D Interchangeable TOX 2 Sensor

0	Empty – dummy sensor	+ \$	0.00
1	H ₂ S Hydrogen Sulfide sensor	+ \$	205.00
2	CO Carbon Monoxide sensor	+ \$	205.00
3	SO ₂ Sulfur Dioxide sensor	+ \$	205.00
4	NO Nitric Oxide sensor	+ \$	205.00
5	NO ₂ Nitrogen Dioxide sensor	+ \$	205.00
6	Cl ₂ Chlorine sensor	+ \$	205.00
7	HCN Hydrogen Cyanide sensor	+ \$	415.00
8	NH ₃ Ammonia sensor	+ \$	415.00
9	PH ₃ Phosphine sensor	+ \$	415.00

E Interchangeable TOX 3 Sensor

0	Empty – dummy sensor	+ \$	0.00
1	H ₂ S Hydrogen Sulfide sensor	+ \$	205.00
2	CO Carbon Monoxide sensor	+ \$	205.00
3	SO ₂ Sulfur Dioxide sensor	+ \$	205.00
4	NO Nitric Oxide sensor	+ \$	205.00
5	NO ₂ Nitrogen Dioxide sensor	+ \$	205.00
6	Cl ₂ Chlorine sensor	+ \$	205.00
7	HCN Hydrogen Cyanide sensor	+ \$	415.00
8	NH ₃ Ammonia sensor	+ \$	415.00
9	PH ₃ Phosphine sensor	+ \$	415.00

F Batteries, Chargers

0	Rechargeable NiMH battery, universal wall adapter	+ \$	105.00
1	Obsolete		
2	Alkaline batteries	+ \$	0.00
3	Rechargeable NiMH battery, no wall adapter	+ \$	74.00

G Datalogging, Kits

3	Datalogging monitor, Monitor only	+ \$	0.00
4	Datalogging monitor, Accessories and 4-gas (O ₂ /LEL/CO/H ₂ S) Cal Kit	+ \$	473.00
5	Datalogging monitor, Accessories Kit (no gas or regulator)	+ \$	237.00

018- A B C D- E F G

Total

VRAE Part Number Configurator Guide

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