

TOXiRAE PLUS

O₂ & LEL Monitors

Light-weight, personal and compact O₂ and LEL gas monitors with rechargeable battery providing up to 10 hours of continuous operation.

Highlights

- Small, weather-proof, light-weight (around 6 oz) and rugged pocket-size monitor
- Easily changeable gas sensor
- Varying audio alarm signals for different alarm conditions
- Factory preset and user programmable alarms
- Protects from interference by portable radios (RFI)
- Long operation time:
 - Alkaline batteries (oxygen & toxic gas monitors) provide over 1000 hours
 - Ni-Cd rechargeable or alkaline batteries for combustible gas monitor provide 10 hours of continuous operation
- Peak Readings
 - Oxygen: peak high and low values
 - Combustible: peak high readings
- Simple calibration

Applications

- Confined Space Entry
 - Waste water treatment plants
 - Shipyard and maritime confined spaces
 - Land-fill operations
 - Trenches, silos, railcars
 - Sewers and manholes
- Steel mills
- Pulp and paper industry

Factory Preset

	Low	High
Oxygen	19.5%	23.5%
Combustible Gas	10%	20%



RAE Systems

1339 Moffett Park Drive • Sunnyvale, California 94089 USA
Tel: 408.752.0723 • Fax: 408.752.0724
Email: RaeSales@raesystems.com • www.raesystems.com



Specifications

Sensor Specifications

Sensor	Range	Resolution	Response Time (t ₉₀)
O ₂	0 ~ 30%	0.1%	15 seconds
LEL	0 ~ 100% LEL	1%	15 seconds

Detector Specifications

Size	6.0"L x 1.75"W x 1.0"H (15.2 cm x 4.4 cm x 2.5 cm)
Weight	4.2 oz with battery (120g) for oxygen 6.9 oz with battery (197g) for combustible gas monitor
Detector	Electrochemical sensor for oxygen Protected catalytic bead for combustible gases
Battery	2-AAA alkaline batteries for oxygen Rechargeable, 4.8 V, 900mAh, Ni-Cd battery pack or 4-AAA alkaline battery adapter for combustible gas monitor Battery charger: 10-hours through charging station
Operating Hours	1000-hours continuous for oxygen 10-hours continuous for combustible gas
Display	7-digit LCD with LED back light for oxygen and combustible monitors
Keypad	1 operation key and 2 programming keys
Attachments	Pocket/belt clip
Temperature	5° to 104°F (-15° to 40°C) for oxygen monitors -4° to 113°F (-20° to 45°C) for combustible monitors
Humidity	0% to 99% relative humidity (non-condensing) for oxygen and combustible monitors
Direct Readout (Instantaneous values)	<ul style="list-style-type: none">• Oxygen as percentage by volume• Combustible gas as percentage of lower explosive limit (LEL)• Peak high and low values• Battery voltage• Elapsed time
Alarms	90dB buzzer and flashing red LED to indicate exceeded alarm limits: <ul style="list-style-type: none">• High: 3-beeps and flashes per second• Low: 2-beeps and flashes per second• STEL and TWA: 1-beep and flash per second• Alarms latching with manual override or automatic reset• Additional diagnostic alarm and display message for low battery and pump stall
Intrinsic Safety	UL® and c-UL® Classified as to Intrinsic Safety for use in Class 1, Division I, Groups A, B, C and D hazardous locations and EEx ia IIC T4
Calibration	Two-point field calibration for zero and span gas

ToxiRAE Ordering Information

ToxiRAE PLUS Oxygen Gas Monitor: PGM-36

- 2 AAA batteries
- Calibration adapter with tubing
- Operation and maintenance manual

ToxiRAE PLUS Combustible Gas Monitor: PGM 37

- ToxiRAE PLUS Unit with combustible sensor
- Rechargeable 4.8V, 900mAh battery pack
- Single unit charging station
- Battery charger
- Alkaline battery adapter
- Calibration adapter with tubing
- Operation and maintenance manual

ToxiRAE PLUS Toxic Gas Monitor: PGM-35

ToxiRAE PLUS Unit with interchangeable CO, H₂S, SO₂, NO, NO₂, ClO₂ and Cl₂, non-interchangeable HCN, NH₃ and PH₃ sensor

- Includes same accessories as PGM-36

Other Models:

ToxiRAE PLUS VOC Monitor: PGM-30

ToxiRAE PLUS VOC Datalogging Monitor: PGM-30D

- ToxiRAE PLUS Unit with VOC sensor
- Rechargeable 2.4V, 1100mAh battery pack
- Single unit charging station
- Battery charger
- Alkaline battery adapter
- Calibration adapter with tubing
- Operation and maintenance manual
- Single unit charging station with computer interface (PGM-30D only)
- ProRAE 30 software package for Windows™ (PGM-30D only)

Accessories

- Calibration kits with gas cylinder, flow regulator and tubing
- Manual hand-pump with 15' (5m) Tygon tubing for remote sampling
- Leather case
- 9.8eV, 10.6eV, and 11.7eV lamps for VOC monitor
- Additional sensors available
- Vibration alarm (Pen size)
- Earphone alarm



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ToxiRAE O₂ & LEL