

ToxiRAE PLUS PID

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

ToxiRAE PLUS PID provides 4,000 optional datalogging points of storage capacity for download to PC-compatible computers with Windows™ 95, 98, 2000 and NT.

Highlights

- Small, weather-proof, light-weight (around 6 oz) and rugged, pocket-size monitor
- Up to 10 hours of continuous operation
- Keys easily accessible even with gloves
- Large easy-to-read back-light display
- Easily changeable PID lamp and sensor
- Varying audio alarm signals for different alarm conditions
- Factory preset and user programmable alarms
- Protects from interference by portable radios (RFI)
- Datalogging version provides 4,000 data-points
- STEL, TWA and Peak information for specific VOCs

- Simple calibration
- Preprogrammed correction factors for 38 gases

Applications

- Worker Exposure/Permissible Exposure Limit (PEL) compliance
- Confined Space Entry
- Shipyard and maritime
- Land-fill operations
- Trenches, silos, railcars
- Waste water treatment plants

- Refineries and petrochemical plants, including offshore drilling and plant shut-downs
- Power plants
- Steel mills
- Pulp and paper industry
- Paint and coating operations
- Environmental clean-up
- Hazardous waste spills



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AL001 Rev. 1-10/00



Specifications

Sensor Specifications

| Sensor | Range | Resolution | Response Time (t ₉₀) |
|--------|----------------|------------|----------------------------------|
| VOC | 0 - 99.9 ppm | 0.1 ppm | 10 seconds |
| | 100 - 2000 ppm | 1 ppm | 10 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 | 6.4 oz with battery (180g) |
| Detector | Photo-ionization detector with 10.6 eV lamp standard, 9.8 eV and 11.7 eV optional |
| Battery | Rechargeable, 2.4 V, 1100 mAh, Ni-Cd battery pack or 2AA alkaline battery adapter for VOC monitor Battery charger: 10-hours through charging station |
| Operating Hours | 10-hours continuous operation |
| Display | 8-digit LCD with LED back-light |
| Keypad | 1 operation key and 2 programming keys |
| Attachments | Pocket/belt clip |
| Temperature | -4° to 113°F (-20° to 45°C) for VOC detectors |
| Humidity | 0% to 95% relative humidity (non-condensing) for VOC detectors |
| Direct Readout | <ul style="list-style-type: none"> VOCs as parts-per-million by volume Peak high and low values STEL and TWA values for VOC gases Battery and shut down voltage Elapsed time |
| Alarms | 90dB buzzer and flashing red LED to indicate exceeded 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 |
| Datalogging | Up to 4,000 points downloadable to PC with serial number of unit, user ID, site number, calibration and check calibration time, date and value Interval: 1 - 3,600 seconds programmable |

ToxiRAE PID Ordering Information

ToxiRAE PLUS VOC Monitor: PGM-30

ToxiRAE PLUS VOC Datalogging Monitor: PGM-30D

- ToxiRAE PLUS PID monitor 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)

Other ToxiRAE PLUS Models:

ToxiRAE PLUS Toxic Gas Monitor: PGM-35

ToxiRAE PLUS Unit for use with interchangeable CO, H₂S, SO₂, NO, NO₂ and Cl₂ sensors, or non-interchangeable HCN, NH₃ and PH₃ sensors

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

ToxiRAE PLUS Oxygen Gas Monitor: PGM-36

– Includes same accessories as that of the PGM 35

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

Accessories

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



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