

Soaring To New HEIGHTS

The Legacy Continues



Refineries



Fire & Hazmat



Landfills



Natural Gas



Chemical Plants



EAGLE 2

EAGLE 2



Specifications

Enclosure	Weatherproof, chemical resistant, anti RFI / EMI coated high impact PBT blend. Can operate in rain or be set into 2.0" of water without leakage. Ergonomically balanced with rugged top mounted handle.
Dimensions	9.5" L x 5.25" W x 5.875" H (241mm L x 140mm W x 149mm H)
Weight	3.8 Lbs (1.72kg) (standard 4 gas with batteries)
Detection Principle	Catalytic combustion, electrochemical, galvanic, infrared, photo ionization, and thermal conductivity.
Sensor Life	2 Years under normal conditions.
Sampling Method	Powerful, long-life pump (over 6,000 hours) can draw samples over 125 feet. Flow rate approximately 2.0 SCFH
Display	Backlit 128 x 64 graphics display. Viewed through window in case top. Displays readings & status of all 6 channels simultaneously. Backlight, illuminates for alarms and by demand with adjustable time. Optional mode allows automatic or manual scrolling display of just one gas at a time with very large characters.
Language	Readout can display in 5 languages (English, French, German, Italian, or Spanish).
Alarms	2 Alarms per channel plus TWA and STEL alarms for toxics. The two alarms are fully adjustable for levels, latching or self reset, and silenceable.
Alarm Method	Buzzer 95 dB at 30 cm, four high intensity LED's.
Controls	4 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL/ppm, % Vol. alarm silence, peak hold, TWA/STEL values, battery status, conversion factors, and many other features.
Continuous Operation	At 70°F, (21°C) 16 hours using alkaline batteries, or 18 hours using Ni-MH.
Power Source	4 Alkaline or Ni-MH, size C batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	(-4°F to 122°F) (-20°C to 50°C) 0 to 95% RH, non-condensing.
Response Time	30 Seconds to 90% (for most gases) using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Division 1, Groups A, B, C, D. CSA, CE
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe, 5 foot hose, and internal hydrophobic filter
Optional Accessories	<ul style="list-style-type: none"> • Dilution fitting (50/50) • Ni-MH batteries • Battery charger, 115 VAC, 220 VAC, or 12 VDC (charge time 4 hours)/ continuous operation adapter, 115 VAC or 12 VDC • Extension hoses
Warranty	Two year material and workmanship, one year for PID sensor

Sensor Technologies

Catalytic



Hydrocarbons (CH ₄ , std)	0 - 100% LEL 0 - 50,000 ppm
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Monitor PPM, LEL, or % Vol. hydrocarbons with one sensor that dynamically switches from one range to the other.

Galvanic



Oxygen (O ₂)	0 - 40% Vol.
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A specific electro chemical sensor for oxygen monitoring.

Standard Electrochemical



Carbon Monoxide (CO)	0 - 500 ppm
Hydrogen Sulfide (H ₂ S)	0 - 100 ppm

Extra long-life CO and H₂S sensors.

Infrared



Carbon Dioxide (CO ₂)	0 - 10,000 ppm 0 - 5% Vol. 0 - 60% Vol.
Methane (CH ₄)	0 - 100% LEL 0 - 100% Vol.
Hydrocarbons	0 - 100% LEL 0 - 30% Vol.

Monitor combustible gases in inert environments. Monitor wide range of CO₂.

Smart Electrochemical



Ammonia (NH ₃)	0 - 75 ppm
Arsine (AsH ₃)	0 - 1.5 ppm
Chlorine (Cl ₂)	0 - 3 ppm
Hydrogen Cyanide (HCN)	0 - 15 ppm
Phosphine (PH ₃)	0 - 1 ppm
Sulfur Dioxide (SO ₂)	0 - 6 ppm

Monitor a wide variety of toxic gases. Smart sensors are auto recognized and can be remotely calibrated.

Thermal Conductivity



Methane (CH ₄)	0 - 100% Vol.
Hydrogen (H ₂)	0 - 10% Vol. 0 - 100% Vol.

Monitor % volume methane or hydrogen.

Photo ionization Detection (PID)



Volatile Organic Compound (VOC)	0 - 50 ppm 0 - 4,000 ppm
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Monitor low ppm VOC gases.





CONFINED SPACE ENTRY

- Monitor LEL, O₂, CO, and H₂S
- Internal sample pump
 - ◊ Pull samples up to 125'
 - ◊ Maintain steady sample flow to sensors
- Audible and visual alarms
 - ◊ 2 Ways to communicate with workers
- Ideal for refinery applications

LEAK INVESTIGATION

- Provides low ppm detection of combustible gas
- Barhole mode for tracking leak migration
- Leak check blink rate
 - ◊ LED's and alarm tones increase in frequency as gas concentration increases
- Audible alarm silence
 - ◊ Perform leak investigations without alarming residents



LINE PURGE TESTING

- Thermal conductivity sensor
 - ◊ 0 to 100% volume Methane / Hydrogen range
- Autoranging IR
 - ◊ Automatically changes from % LEL to % Vol.
 - ◊ Displays appropriate unit of measure

VOC MONITORING

- Robust photo ionization detector (PID)
- Two ranges available,
 - ◊ 0-50 ppm or 0-4,000 ppm
- Can be combined with other sensors to maximize capability



TRANSFORMER TESTING

- Determine transformer health by sampling head space
- Measure Hydrogen (and other flammable gases) and Oxygen in nitrogen blanket
- Increasing flammable gas levels in head space indicates failing transformer

LANDFILL MONITORING

- LEL / PPM Methane and 0-100% volume Methane
- 0-60% Carbon Dioxide range
- Can be combined with other sensors (O₂/H₂S/CO) to maximize capability



