RKI INSTRUMENTS

ONE TO SIX GAS PORTABLE MONITOR

Gas Detection For Life | **EAGLE 2 Model**

Features

- Monitor up to 6 different gases
- PPM, % LEL, or % Vol. auto-ranging combustible detection
- Specialty Sensors
  - PID (Photoionization Detector)
    - Low or high range for VOC detection
    - Humidity and contamination resistant
  - Infrared (IR)
    CO2, % LEL CH4, % Vol. CH4, % LEL HC, % Vol. HC
  - Thermal Conductivity (TC) % Vol. H2, % Vol. CH4
  - Smart toxic, plug and play sensors
    NH3, AsH3, Cl2, HCN, PH3, & SO2
- H2 Specific LEL/PPM detection
- Multilingual (5 languages)
- Powerful long-life pump up to 125' range
- Low flow pump shut off and alarm
- Methane elimination for environmental use
- Alkaline 18 hours or NiMH 20 hours capability
- Password protection
- Datalogging standard
- Auto calibration / single gas calibration
- Internal hydrophobic dust filter
- External probe with hydrophobic filter
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, CSA approval

RKI is proud to offer the next generation of our popular EAGLE portable gas detector. Equipped with features that are not available on competitive units, the EAGLE 2 is a powerful instrument that does more than just offer the standard confined space protection for LEL, O2, H2S and CO.

The EAGLE 2 available features include a PID sensor for detecting high or low ppm levels (0-50 & 0-2,000) of VOC gases; % volume capability for CH4 and H2 using a TC (thermal conductivity) sensor; ppm or LEL hydrocarbon detection at the push of a button; infrared sensors for CO2 (ppm or % volume), methane or hydrocarbons in LEL and % volume ranges; Optional LEL / ppm H2 specific sensor, methane elimination feature for environmental applications; and a variety of super toxic gases.

The EAGLE 2 has a strong internal pump with a low flow auto pump shut off and alarm, which can draw samples from up to 125 feet. This allows for quick response and recovery from distant sampling locations. The EAGLE 2 will continuously operate for over 18 hours on alkaline batteries or 20 hours on NiMH. A variety of accessories are also available to help satisfy almost any application such as long sample hoses, special float probes for tank testing, and dilution fittings, just to name a few. Datalogging is a standard feature for all sensors on all versions.

With its ergonomic design and large glove friendly buttons, the EAGLE 2 offers easy access to controls such as auto calibration, alarm silence, demand zero, peak hold, methane elimination, and a wide variety of other features. Each channel has two alarm levels plus TWA and STEL alarms for toxic channels. The two alarm levels are user adjustable and can be latching or self resetting. Rugged, reliable, easy to operate and maintain, the EAGLE 2 is the solution for just about any portable gas monitoring situation. Also, the display can be set to any of 5 languages: English, French, German, Italian, or Spanish.

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EAGLE 2 Model

Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-PBT blend. Can operate in 2.0" of water without leakage. Ergonomically balanced with rugged top mounted handle. Water & dust resistant equivalent to IP64.
Dimensions	9.5" L x 5.25" W x 5.875" H
Weight	3.8 Lbs (standard 4 gas with batteries).
Detection Principle	Catalytic combustion, electrochemical cell, galvanic cell, infrared, photoionization detector, and thermal conductivity.
Sampling Method	Powerful, long-life internal pump (over 6,000 hours) can draw samples over 125 feet. Flow rate approximately 2.0 SCFH.
Display	3 display modes: display all gases, large font-autoscroll, or large font-manual scroll. Polyurethane protected overlay. Backlight, illuminates for alarms and by demand, with adjustable time.
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 auto calibration. Buttons also access LEL/ppm, alarm silence, peak hold, TWA/STEL values, battery status, conversion factors, and many other features.
Continuous Operation	At 70°F, 18 hours using alkaline batteries, or 20 hours using NiMH.
Power Source	4 alkaline or NiMH, size C batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	-20°C to 50°C (-4°F to 122°F), 0 to 95% RH, non-condensing.
Environmental	IP-64
Response Time	30 seconds to 90% (for most gases) using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Groups A, B, C, D. Approvals: CSA / CE
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe, and 5 foot hose, internal hydrophobic filter.
Optional Accessories	• Dilution fitting (50/50) • Ni-MH batteries • Battery charger, 115 VAC, 220 VAC, or 12 VDC (charge time 4 hours) with continuous operation function • Extension hoses
Warranty	Two years material and workmanship, one year for PID sensor.

Gas	Measuring Range	Accuracy * Which ever is greater
Gases & Detectable Ranges		
Standard Confined Space Gases		
Hydrocarbons (CH₄, std)	0 - 50,000 ppm	± 5% of reading or ± 2% LEL (*)
	0 - 100% LEL	
	0 - 5% Vol.	± 50 ppm or ± 10% of reading (*)
(H2) Specific	0 - 40,000 ppm	± 50 ppm or ± 10% of reading (*)
	0 - 100% LEL	
	0 - 4% Vol.	
Oxygen (O₂)	0 - 40% Vol.	± 0.5% O2
	0 - 100% Vol. (option)	
Carbon Monoxide (CO)	0 - 500 ppm 0 - 1,000 ppm (option)	± 5% of reading or ± 5 ppm CO (*)
Hydrogen Sulfide (H₂S)	0 - 100 ppm	± 5% of reading or ± 2 ppm H2S (*)
Toxics		
Ammonia (NH₃)	0 - 75 ppm	± 10% of reading or ± 5% of full scale (*)
Arsine (AsH₃)	0 - 1.5 ppm	
Chlorine (Cl₂)	0 - 3 ppm	
Hydrogen Cyanide (HCN)	0 - 15 ppm	
Phosphine (PH₃)	0 - 1 ppm	
Sulfur Dioxide (SO₂)	0 - 6 ppm	
IR Sensors		
Carbon Dioxide (CO₂)	0 - 10,000 ppm 0 - 5% Vol. 0 - 60% Vol.	± 5% of reading or ± 2% of full scale (*)
Methane (CH₄)	0 - 100% LEL/ 0 - 100% Vol.	
Hydrocarbons	0 - 100% LEL/ 0 - 30% Vol.	
PID Sensors		
VOC	0 - 2,000 ppm 0 - 50 ppm	—
TC Sensors		
Methane (CH₄)	0 - 100% Vol.	± 5% of reading or ± 2% of full scale (*)
Hydrogen (H₂)	0 - 10% Vol. 0 - 100% Vol.	

The EAGLE 2 can be configured with up to 6 gas sensors from the above list.

Authorized Distributor: