RKI INSTRUMENTS

EAGLE™

Gas Detection for Life

ONE TO SIX GAS PORTABLE MONITOR

Features

Simultaneous detection of up to 6 different gases

Over 400 gas monitoring configurations

Wide range of toxic gases

PPM / LEL hydrocarbon detection

Powerful long-life pump up to 125' range with filters

Low flow pump shut off and alarm

Methane elimination switch for environmental use

Security "Adjustment Lockout Switch"

Up to 30 hours of continuous operation

Alkaline or Ni-Cad capability

IR Sensors available for CO_2, %LEL CH_4 or HC, %volume CH_4 or HC

Transformer testing version available

Autocalibration / single gas calibration

Dual hydrophobic filters (most versions)

Ergonomic RFI / EMI / chemical / weather resistant enclosure

Intrinsically safe design, CSA (C / US) & UL classified (most versions)

Complies with EPA Method 21

Operating Modes

RKI is proud to offer the most versatile portable gas detector on the market. Equipped with features that are not available on most competitive units, the EAGLE™ is a powerful instrument that does more than just offer the standard confined space protection for LEL, O_2, H_2S and CO. Detection combinations never before offered in a portable gas monitor are now available featuring the industry's widest selection of high quality, long life and field proven sensors.

Unique EAGLE features include PPM or LEL hydrocarbon detection at the push of a button; infrared sensors for CO_2, methane or hydrocarbons in LEL and % volume ranges; a methane elimination switch for environmental applications, a long list of super toxic gases and measurable ranges, and dual hydrophobic filters that increases its water resistant performance. The EAGLE has a strong internal pump with a low flow auto shut off and alarm, which can draw samples from up to 125 feet even with the dual hydrophobic filters in place. This allows for quick response and recovery from distant sampling locations. The EAGLE will continuously operate for over 30 hours on alkaline batteries or 18 hours on Ni-Cads. A variety of accessories are also available to help satisfy almost any application such as long sample hoses, special float probes for tank testing, continuous operation adapters, remote alarms and strobes, and dilution fittings, just to name a few.

With its ergonomic design and large glove friendly buttons, the EAGLE offers easy access to controls such as autocalibration, alarm silence, demand zero, peak hold 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 is the solution for just about any portable gas monitoring situation.

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Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-polyester blend. Can operate in rain or set into 2.0" of water without damage. Ergonomically balanced with rugged top mounted handle.
Dimensions	10.5" L x 5.9" W x 7" H
Weight	5 lbs (standard 4 gas with batteries)
Detection Principle	Catalytic combustion, electrochemical cell, galvanic cell, infrared.
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	4 x 20 LCD readout. Viewed through window in case top. Displays readings & status of 4 channels simultaneously. Backlight, automatic for alarms and by demand with adjustable time.
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 85 dB at 30 cm, dual high intensity LED's, and flashing display.
Controls	6 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL / ppm, alarm silence, peak hold, TWA / STEL values battery status and many other features.
Continuous Operation	30 Hrs min. using alkaline batteries, or 18 hrs using Ni-Cad.
Power Source	4 Alkaline or Ni-Cad, size D batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	-10°C to 40°C (14°F to 104°F), 0 to 95% RH, non-condensing.
Response Time	30 Seconds to 90% (most gases) using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Division 1, Groups A, B, C, D. CSA (C / US) and UL classified (most versions).
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe and 5 foot hose, Internal hydrophobic filter (most versions) (certain toxic versions equipped with special probe, inlet fitting and 3' teflon hose. For HF and O3 versions, 3' PTFE hose used without probe).
Optional Accessories	• Remote alarms • Dilution fitting (50/50) • Ni-Cad batteries • Battery charger, 115 VAC, 220 VAC, or 12 VDC • Continuous operation adapter, 115 VAC or 12 VDC • Extra loud buzzer • Extension probes • Large internal hydrophobic filter
Warranty	Two year material and workmanship

Gas	Measuring Range	Accuracy * Which ever is greater
Gases & Detectable Ranges		
Standard Confined Space Gases		
Hydrocarbons (CH_4, std)	0 - 100% LEL	± 5% of reading or ± 2% LEL (*)
	0 - 50,000 ppm	± 50 ppm or ± 5% of reading (*)
Oxygen (O_2)	0 - 40% Vol.	± 0.5% O2
Carbon Monoxide (CO)	0 - 500 ppm	± 5% of reading or ± 5 ppm CO (*)
Hydrogen Sulfide (H_2S)	0 - 100 ppm	± 5% of reading or ± 2 ppm H2S (*)
Super Toxics and Other Gases		
Ammonia NH_3	0 - 75 ppm	± 10% of reading or ± 5% of full scale (*)
Arsine AsH_3	0 - 1 ppm 0 - 200 ppb	
Chlorine Cl_2	0 - 3 ppm	
Chlorine Dioxide ClO_2	0 - 1 ppm	
Fluorine F_2	0 - 5 ppm	
Hydrogen Fluoride HF	0 - 9 ppm	
Hydrogen Chloride HCl	0 - 15 ppm	
Hydrogen Cyanide HCN	0 - 30 ppm	
Hydrogen Peroxide H2O2	0 - 3 ppm	
Hydrogen Selenide H_2Se	0 - 0.2 ppm	
Hydrogen Sulfide H_2S	0 - 1 ppm 0 - 30 ppm	
Nitrogen Dioxide NO_2	0 - 15 ppm	
Ozone O_3	0 - 1 ppm	
Nitric Oxide NO	0 - 100 ppm	
Phosphine PH_3	0 - 1 ppm	
Silane SiH_4	0 - 15 ppm	
Sulfur Dioxide SO_2	0 - 6 ppm	
IR Sensors		
Carbon Dioxide CO_2 (IR Sensor)	0 - 5,000 ppm 0 - 10,000 ppm 0 - 5% Vol. 0 - 20% Vol. 0 - 60% Vol.	± 5% of reading or ± 2% of full scale (*)
Methane CH_4 (IR Sensor)	0 - 100% LEL 0 - 100% Vol.	
Isobutane iC_4H_{10} (IR Sensor)	0 - 100% LEL 0 - 30% Vol.	

*Specifications subject to change without notice

RKI INSTRUMENTS ISO 9001 10000363

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