



INERT GAS TESTER

Gas Detection For Life

EAGLE™ Model

Features

- Simultaneous detection of up to four different gases
- PPM / LEL hydrocarbon detection
- Powerful long-life pump up to 125' range with filters
- Low flow pump shut off and alarm
- Built-in two pump dilution system for LEL measurement in inert atmospheres
- Security "Adjustment Lockout Switch"
- Up to 20 hours of continuous operation
- Alkaline or Ni-Cad capability
- Hydrogen-compensated carbon monoxide sensor
- Datalogging option
- Autocalibration / single gas calibration
- Dual hydrophobic filters
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, intended for Class I Division 2 hazardous locations. (No third party approval).



RKI is proud to offer this version of our Eagle portable gas detector. Equipped with features that are not available on any competitive units, the EAGLE is a powerful instrument that does more than just offer the standard confined space protection for LEL, O₂, H₂S and CO. The Eagle Inert Gas Tester is capable of detection of flammable gases and vapors in inerted environments, using a unique two-pump dilution sample system. This allows uses of a catalytic bead (pellistor) type sensor for LEL detection of virtually all flammable gases and vapors, including hydrogen.

Other unique EAGLE features include PPM or LEL hydrocarbon detection at the push of a button; as well as a special hydrogen-compensated CO sensor that rejects interference from hydrogen up to 10 % LEL. 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. It also includes a second pump to provide dilution air for the LEL sensor, with the two pump approach helping to compensate for changes in sample line restriction from long hoses or partially clogged filters. The EAGLE will continuously operate for over 20 hours on alkaline batteries or 12 hours on Ni-Cads.

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 where inerted environments must be tested, with the versatility to also be used for standard confined space entry testing.

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World Leader In Gas Detection & Sensor Technology
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EAGLE™ Model

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
Detection Principle	Catalytic combustion, electrochemical cell (CO and H ₂ S), galvanic cell (O ₂), (Hydrogen compensated CO sensor).
Sensor Life	2 years under normal conditions.
Sampling Method	Powerful, long-life pump (over 6,000 hours) can draw samples over 125 feet. Second pump provides dilution air for LEL sensor.
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	20 Hrs min. using alkaline batteries, or 12 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% using standard 5 ft hose.
Safety Rating	Intrinsically safe design, intended for Class I Division 2 hazardous locations. (No third party approval).
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe and 5 foot hose, Internal hydrophobic filter.
Optional Accessories	<ul style="list-style-type: none"> • Datalogging • Remote alarms • 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
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 ± 10% of reading (*)
Oxygen (O ₂)	0 - 40% Vol.	± 0.5% O ₂
Carbon Monoxide (CO)	0 - 300 ppm	± 5% of reading or ± 5 ppm CO (*)
Hydrogen Sulfide (H ₂ S)	0 - 100 ppm	± 5% of reading or ± 2 ppm H ₂ S (*)

Ordering Information	
Eagle HC LEL / ppm / O ₂ / CO / H ₂ S Internal dilution	72-5400RK-10
NiCad batteries / 115VAC charger	49-2150RK-01
Datalog board	57-0012RK-01
Datalog software / download cable	82-5007RK
Calibration kit	81-5401RK-DLV

Specifications subject to change without notice.



INSTRUMENTS

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