



EAGLE™ Model



Features

- Simultaneous detection of up to 6 different gases
- Over 350 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 CO₂, % LEL CH₄ or HC, % volume CH₄ or HC
- Transformer testing version available
- Datalogging option
- Autocalibration
- Dual hydrophobic filters (most versions)
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, CSA (C / US) & UL Classified (most versions)

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, O₂, H₂S 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 CO₂, methane or isobutane 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, datalogging, 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.





Special Features

- Low flow alarm shuts pump off to avoid damage to instrument.
- Hydrophobic filter disc in probe.
- Internal hydrophobic filter (most versions).
- Single gas calibration capability.
- Methane elimination switch for environmental applications.
- Security "Adjustment Lockout Switch".
- Confirmation beep (silenceable).
- Meets EPA Method 21 protocol for fugitive

Enclosure: Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-polyester blend. Can operate in rain or set into 2.5" 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, galvanic cell, and 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 LEDs, 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 hours minimum using alkaline batteries, or 18 hours using Ni-Cads.

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.

Indication Accuracy: Maximum variance +/- 5% of full scale.

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 and D. CSA (C / US) & 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' teflon hose used without probe).

Optional Accessories

- Datalogging of up to 4 gases (No datalogging possible on 5 or 6 gas versions or versions with more than 2 toxic sensors)
- 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: One year material and workmanship





Gases & Detectable Ranges

Standard Confined Space Gases.	
Hydrocarbons (CH ₄ , std)	0 - 100% LEL 0 - 50,000 ppm
Oxygen (O ₂)	0 - 40% Vol.
Carbon Monoxide (CO)	0 - 500 ppm
Hydrogen Sulfide (H ₂ S)	0 - 100 ppm
Super Toxics and Other Gases.	
Ammonia (NH ₃)	0 - 75 ppm
Arsine (AsH ₃)	0 - 1 ppm 0 - 200 ppb
Carbon Dioxide (CO ₂) (I R Sensor)	0 - 5,000 ppm 0 - 10,000 ppm 0 - 5% Vol. 0 - 20% Vol. 0 - 60% Vol.
Chlorine (Cl ₂)	0 - 3 ppm
Fluorine (F ₂)	0 - 5 ppm
Hydrogen Cyanide (HCN)	0 - 30 ppm
Hydrogen Chloride (HCl)	0 - 15 ppm
Hydrogen Sulfide (H ₂ S)	0 - 1 ppm 0 - 30 ppm
Methane (CH ₄) (IR Sensor)	0 - 100% LEL 0 - 100% Vol.
Nitrogen Dioxide (NO ₂)	0 - 15 ppm
Nitric Oxide (NO)	0 - 100 ppm
Ozone (O ₃)	0 - 1 ppm
Phosphine (PH ₃)	0 - 1 ppm
Silane (SiH ₄)	0 - 15 ppm
Sulfur Dioxide (SO ₂)	0 - 10 ppm 0 - 30 ppm

The EAGLE can be configured with up to 6 gas sensors including a maximum of 2 super toxics from the above list.

- RK-72-5101RK**
Eagle, LEL / PPM Hydrocarbons

- RK-81-5101RK**
Calibration Kit For LEL / PPM (CH₄)

- RK-72-5115RK-XX**
Eagle, CO₂ (Cal Kit Determined W/ Specific Range)

- RK-72-5201RK**
Eagle, LEL / PPM, O₂

- RK-81-5201RK**
Calibration Kit For LEL / PPM (CH₄), CO, O₂

- RK-72-5301RK**
Eagle, LEL / PPM, O₂, H₂S

- RK-81-5301RK**
Calibration Kit For LEL / PPM (CH₄), CO, O₂, H₂S (25 ppm)

- RK-72-5401RK**
Eagle, LEL / PPM, O₂, CO, H₂S

- RK-81-5401RK**
Calibration Kit For LEL / PPM (CH₄), O₂, CO, H₂S (25 ppm)

- RK-20-0640RK**
Eagle Carrying Case, Padded

- RK-33-0156RK-01**
Replacement Hydrophobic Filter Element, 5/Pack

- RK-49-2150RK-01**
Charger (115 V AC) & NiCads, added to Eagle

- RK-57-0012RK-01**
Datalogging board (Field Or Factory Installed)

- RK-82-5007RK**
Datalogging Kit, Software & Cable (Required W/ Board)

- RK-75-0001RK**
External Methane Elimination Switch

