



# ONE TO FOUR GAS PORTABLE MONITOR

Gas Detection For Life

Diffusion EAGLE™ Model



## Features

- Simultaneous detection of up to 4 different gases
- Field proven gas sensors available for LEL, O<sub>2</sub>, H<sub>2</sub>S and CO
- Extender cables available in 20' and 50' lengths
- PPM / LEL hydrocarbon detection
- Methane elimination switch for environmental use
- Security "Adjustment Lockout Switch"
- Up to 34 hours of continuous operation
- Alkaline or Ni-Cad capability
- Ergonomic RFI / EMI chemical resistant case
- Datalogging option
- Autocalibration
- Intrinsically safe design, CSA / NRTL
- Water resistant sensors and extender cable
- Remote buzzer included inside sensor housing

RKI introduces our newest version of the most versatile portable gas detector on the market, the diffusion style EAGLE. This version of the EAGLE maintains the same features as its original sample drawing design, but utilizes a unique diffusion sensor block external to the Eagle for quicker response and recovery. This sensor block is capable of simultaneously monitoring up to 4 gases and may be connected directly to the instrument or to the end of an extender cable, available in 20 foot and 50 foot lengths. The sensor block is also equipped with a separate buzzer for remote alarms. The sensors located in this water resistant enclosure are the same high quality, field proven sensors that the industry has relied on for many years.

The diffusion EAGLE's ergonomic design offers easy access to controls through its large glove friendly buttons. These controls include LEL or PPM detection, autocalibration, alarm silence, demand zero, peak hold as well as a wide variety of other features. Each channel has 2 programmable alarm levels plus TWA (Time Weighted Average) and STEL (Short Term Exposure Limit) alarms for toxic channels. Each alarm level is adjustable and can be set to latching or self-resetting. The diffusion EAGLE will continuously operate for 34 hours on alkaline batteries or 20 hours on Ni-Cads. Rugged, weatherproof, easy to operate and maintain, the diffusion EAGLE is another powerful solution to portable gas detection applications.

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World Leader In Gas Detection & Sensor Technology  
[www.rkiinstruments.com](http://www.rkiinstruments.com)

# Diffusion EAGLE™ Model

**Enclosure** Weatherproof, chemical resistant, RFI/EMI coated high impact polycarbonate-polyester blend. Can be set in rain or 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.

**Sensor Life** 2 years under normal conditions.

**Sampling Method** Detachable diffusion sensor enclosure with optional extender cable.

**Display** 4 x 20 LCD readout with backlighting. Viewed through window in case top. Displays readings & status of all channels simultaneously.

**Alarms** 2 alarms per channel plus TWA and STEL alarms. Fully adjustable for levels, latching or self reset and silenceable.

**Alarm Method** Buzzer, 85dB at 30 cm, (one in EAGLE and one in sensor housing) dual high intensity LED's and flashing display.

**Controls** 6 external 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 Operating Hours** 34 hours using alkaline batteries, 20 hours using Ni-Cads.

**Power Source** Size D batteries, 4 alkaline or Ni-Cad. 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** +/- 5% of full scale for Hydrocarbons, CO, H<sub>2</sub>S.  
+/- 0.5% oxygen.

**Response Time** 30 seconds to 90%.

**Safety Design** Intrinsically Safe, Class I, Division 1, Groups A, B, C and D. CSA / NRTL.

**Standard Accessories** Shoulder strap and alkaline batteries.

**Optional Accessories**

- Datalogging of all 4 gases
- Remote alarm
- Ni-Cad batteries
- Battery charger, 115 VAC, 220 VAC or 12 VDC
- Continuous Operation Adapter, 115 VAC or 12 VDC
- Extra loud buzzer

**Warranty** One year, materials and workmanship

## Gases & Detectable Ranges

Standard Confined Space Gases	
Hydrocarbons (CH <sub>4</sub> is standard)	0 - 100% LEL 0 - 50,000 ppm
Oxygen (O <sub>2</sub> )	0 - 40% Vol.
Carbon Monoxide (CO)	0 - 500 ppm
Hydrogen Sulfide (H <sub>2</sub> S)	0 - 100 ppm

## Special Features

- Simple autocalibration of all channels with one button.
- Single channel calibration capability.
- Methane elimination switch for environmental applications.
- "Adjustment Lockout Switch" to protect custom settings.
- Confirmation beep (silenceable).
- Backlight, automatic for alarms and by demand with adjustable time.

## Ordering Information

Eagle Measuring	Part Number
LEL/O <sub>2</sub> . . . . .	72-5201RKD
LEL/O <sub>2</sub> /H <sub>2</sub> S . . . . .	72-5301RKD
LEL/O <sub>2</sub> /CO . . . . .	72-5302RKD
LEL/O <sub>2</sub> /CO/H <sub>2</sub> S . . . . .	72-5401RKD

Specifications subject to change without notice.

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