

RIKEN EAGLE

One to six gas portable monitor



The EAGLE is a powerful instrument that does more than offer standard confined space protection and is one of the most versatile portable gas detectors on the market. The EAGLE also provides detection combinations never before offered in a portable gas monitor featuring the industry's widest selection of high quality, long life and field proven sensors.

The EAGLE's ergonomic design offers easy access to controls such as auto-calibration, alarm silence, demand zero, peak hold and a wide variety of other features. Each channel has 2 alarm levels plus TWA and STEL alarms for toxic channels. Alarm levels are adjustable and can be latching or self resetting.

Standard features on the EAGLE are not available on other competitive units. These features include PPM/LEL hydrocarbon detection and a methane elimination switch for environmental applications. For quick response and recovery, the EAGLE has a strong internal pump which can draw samples from over 38 metres. The EAGLE will continuously operate for over 30 hours on alkaline batteries or 18 hours on Ni-Cads. Many accessories such as long hoses, special probes, datalogging, continuous operation adapters, remote alarms and strobes, dilution fittings, internal hydrophobic filter, etc, are available to help satisfy almost any application. Rugged, weatherproof, easy to operate and maintain, the EAGLE is the industry's answer to portable gas detection.

GASES & DETECTABLE RANGE

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 Sulphide (H ₂ S)	0 – 100 ppm

Super Toxics & Other Gases

Ammonia (NH ₃)	0 – 75 ppm
Arsine (AsH ₃)	0 – 1 ppm 0 – 200 ppb
Carbon Dioxide (CO ₂) (IR Sensor)	0 – 5,000 ppm 0 – 10,000 ppm 0 – 5% vol 0 – 20% vol 0 – 50% vol
Chlorine (Cl ₂)	0 – 3 ppm
Fluorine (F ₂)	0 – 5 ppm
Hydrogen Fluoride (HF)	0 – 9 ppm
Hydrogen Chloride (HCl)	0 – 5 ppm
Hydrogen Cyanide (HCN)	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
Sulphur Dioxide (SO ₂)	0 – 30 ppm

KEY FEATURES

- Simultaneous detection of up to 6 different gases
- Over 250 gas monitoring configurations
- Wide variety of field proven gas sensors available
- PPM/LEL hydrocarbon detection
- Powerful long-life inbuilt sample draw pump
- Low flow pump shut off and alarm
- Methane elimination switch for environmental use
- Security "Adjustment Lockout Switch"
- Up to 30 hours of continuous operation
- IR Sensors available for CO₂, %LEL CH₄, and 0-100% vol CH₄
- Transformer testing version available
- Datalogging option
- Ergonomically designed
- Autocalibration
- RFI/EMI/Chemical resistant case
- Intrinsically safe design, CSA/NRTL & UL Classified
- Alkaline or Ni-Cad capability

The Eagle can be provided with up to 6 gas sensor (2 Toxics maximum from "super toxics" list. Please specify gas combination when ordering.

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Accuracy (of full scale)	Combustible Gas (%LEL)+ 5% of reading or+ 2% LEL (whichever is greater)	Combustible Gas (PPM)+ 25 ppm or + 5% of reading (whichever is greater) Under ideal conditions	Oxygen + 0.5% O ₂	Hydrogen Sulphide + 5% of reading or + 2 ppm of H ₂ S (whichever is greater)	Carbon Monoxide + 5% of reading or + 5 ppm of CO whichever is greater)
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)					
<ul style="list-style-type: none"> Remote alarm Dilution fitting (50/50) Nicad Batteries Battery charger, 220 VAC or 12 VDC Continuous Operation Adaptor, 12 VDC Extra loud buzzer Extension Probes Internal Hydrophobic Filter (strongly recommended) 					

SPECIFICATIONS Specifications subject to change without notice

Enclosure	Weatherproof, chemical resistant, RFI/EMI coated high impact polycarbonate-polyester blend. Can be set in rain or into 6.3 cm of water without damage. Ergonomically balanced with rugged top mounted handle.	Continuous Operating Hours	30 hours minimum using alkaline batteries, or 18 hours using Nicads.
Dimensions	27cm x 15cm x 17.7cm (L x W x H)	Power Source	Size D batteries, 4 alkaline or Nicad. Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines.
Weight	2.3 kg	Operating Temp & Humidity	-10°C to 40°, 0 to 95% RH, non-condensing.
Detection Principle	Catalytic combustion, electrochemical cell, galvanic cell and infrared.	Response Time	30 seconds to 90% (for most gases).
Sensor Life	Two (2) years under normal conditions.	Safety Design	Intrinsically safe, Class I, Division 1, Groups A, B, C and D. CSA/NRTL & UL Classified (most versions).
Sampling Method	Powerful, long-life pump (over 6000 hours) can draw samples over 38 metres. Flow rate approximately 2.0 SCFH.	Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe and 1.52m hose (for special toxic gas versions, shorter Teflon hose used without probe).
Display	4 x 20 LCD readout with backlighting. Viewed through window in case top. Displays readings & status of all channels simultaneously.	Warranty	Two year material and maintenance
Alarms	Two (2) alarms per channel plus TWA and STEL alarms. Fully adjustable for levels, latching or self reset and silenceable.		
Alarm Method	Buzzer 85 dB at 30cm, dual high intensity LED's and flashing display.		
Controls	Six (6) external push buttons for operation, demand zero, and autocalibration. Buttons also access LEL/ppm, alarm silence, peak hold, TWA/STEL values, battery status & many other features.		



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