

# RIKEN EAGLE 2

One to six gas portable monitor



The popular EAGLE 2 portable gas detector is a powerful instrument that does more than just offer the standard confined space protection for LEL, O<sub>2</sub>, H<sub>2</sub>S and CO. The EAGLE 2 portable gas detector is equipped with features that are not available on competitive units.

The EAGLE 2 features include a PID sensor for detecting low and high ppm levels (0-50ppm & 0-2,000ppm) of VOC gases; % volume capability for CH<sub>4</sub> and H<sub>2</sub> using a TC (thermal conductivity) sensor; PPM or LEL hydrocarbon detection at the push of a button; infrared sensors for CO<sub>2</sub>, methane or hydrocarbons in LEL and % volume ranges; methane elimination feature for environmental applications; and a variety of super toxic gases and measurable ranges.

The EAGLE 2 has a strong internal pump with a low flow auto pump shut off and alarm, which can draw samples from up to 38 metres. This allows for quick response and recovery from distant sampling locations. The EAGLE 2 will continuously operate for over 16 hours on alkaline batteries or 20 hours on Ni-MH. A variety of accessories are also available to help satisfy almost any application such as long sample

hoses, special float probes for tank testing, and dilution fittings, to name a few. Datalogging is a standard feature for all sensors on all versions. With its ergonomic design and large glove friendly buttons, the EAGLE 2 offers easy access to controls such as auto-calibration, alarm silence, demand zero, peak hold, methane elimination, 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 adjustable and can be latching or self resetting. Rugged, reliable, easy to operate and maintain, the EAGLE 2 is the solution for just about any portable gas monitoring situation.

## KEY FEATURES

- Monitor up to 6 different auto-ranging gases
- PPM / LEL hydrocarbon detection
- PID (Photo Ionization Detector) low and high range for VOC detection
- Infrared Sensors available for CO<sub>2</sub>, % LEL CH<sub>4</sub>, % Vol. CH<sub>4</sub>, % LEL HC, % Vol. HC
- TC (Thermal Conductivity) sensor available for % Vol. H<sub>2</sub> or % Vol. CH<sub>4</sub>
- Plug and play, smart toxic sensors
- Hundreds of configurations
- Powerful long-life pump up to 38m range
- Low flow pump shut off and alarm
- Methane elimination for environmental use
- Alkaline 16 hours or Ni-MH 20 hours capability
- Password protection
- Datalogging standard
- IrDA communications port
- Autocalibration
- Internal hydrophobic dust filter
- External probe with hydrophobic filter
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, CSA approval

**GASES & DETECTABLE RANGES****Standard Confined Space Gases**

Hydrocarbons (CH4 std)	0 – 100% LEL 0 – 50,000 ppm
Oxygen (O2)	0 – 40% vol
Carbon Monoxide (CO)	0 – 500 ppm
Hydrogen Sulphide (H2S)	0 – 100 ppm

**Toxics**

Ammonia (NH3)	0 – 75 ppm
Arsine (AsH3)	0 – 1 ppm
Hydrogen Cyanide (HCN)	0 – 30 ppm
Phosphine (PH3)	0 – 1 ppm
Sulphur Dioxide (SO2)	0 – 30 ppm

**IR Sensors**

Carbon Dioxide (CO2)	0 - 10,000 ppm 0 - 5% Vol 0 - 60% Vol
Methane (CH4)	0 - 100% LEL 0 - 100% Vol
Hydrocarbons	0 - 100% LEL 0 - 30% Vol

**PID Sensors**

VOC	0 - 2,000 ppm 0 - 50 ppm
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**TC Sensors**

Methane (CH4)	0 - 100% Vol
Hydrogen	0 - 100% Vol 0 - 10% Vol

The Eagle 2 can be configured with up to 6 gas sensors from the above list

**SPECIAL FEATURES**

- Low Flow alarm shuts pump off to avoid damage to instrument
- Hydrophobic filter disc in probe
- Internal hydrophobic filter
- Single gas calibration capability
- Methane elimination switch for environmental applications
- Security Password protected
- Meets EPA Method 21 protocol for fugitive emissions testing (most applications)
- Plug and play toxic sensors
- Datalogging available for all configurations
- Transformer gas testing version available

**OPTIONAL ACCESSORIES**

- Dilution fitting (50/50)
- NiMH Batteries
- Battery charger, 220 VAC or 12 VDC (charge time 4 hours)
- Continuous Operation Adaptor, 12 VDC

Extension Hoses

Stand Alone Docking Station

## RIKEN EAGLE 2

**SPECIFICATIONS** Specifications subject to change without notice

<b>Enclosure</b>	Weatherproof, chemical resistant, RFI/EMI coated high impact polycarbonate- polyester blend. Can operate within 5cm of water without leakage. Ergonomically balanced with rugged top mounted handle. Water & dust resistant equivalent to IP65.	<b>Controls</b>	Four (4) 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, conversion factors and many other features.
<b>Dimensions</b>	24cm x 13.3cm x 14.9cm (L x W x H)	<b>Continuous Operating Hours</b>	At 21°C, 16 hours using alkaline batteries, or 20 hours using NiMH.
<b>Weight</b>	1.7 kg (standard 4 gas with batteries)	<b>Power Source</b>	4 alkaline or NiMH, size C batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines)
<b>Detection Principle</b>	Catalytic combustion, electrochemical cell, galvanic cell, infrared, photo ionization detector and thermal conductivity.	<b>Operating Temp &amp; Humidity</b>	-20°C to 50°, 0 to 95% RH, non-condensing.
<b>Sensor Life</b>	Two (2) years under normal conditions	<b>Indication Accuracy</b>	Maximum variance + 5% of full scale.
<b>Sampling Method</b>	Powerful, long-life pump (over 6000 hours) can draw samples over 38 metres. Flow rate approximately 2.0 SCFH (standard cubic feet / hour)	<b>Response Time</b>	30 seconds to 90% (for most gases) using standard 1.5 metre hose
<b>Display</b>	3 display modes: display all gases, large font-autoscroll or large font-manual scroll.	<b>Safety Design</b>	Intrinsically safe, Class I, Division 1, Groups A, B, C and D. Approvals: CSA / CE
<b>Language</b>	Readout can display in 5 languages (English, French, German, Italian or Spanish)	<b>Standard Accessories</b>	Shoulder strap, alkaline batteries, hydrophobic probe and 1.5m hose, internal hydrophobic filter
<b>Alarms</b>	Two (2) alarms per channel plus TWA and STEL alarms for toxics. Fully adjustable for levels, latching or self reset and silenceable.	<b>Warranty</b>	Two year material and workmanship, one year for PID sensor
<b>Alarm Method</b>	Buzzer 90 dB at 30cm, four high intensity LED's.		



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