Technical Data Sheet

Eagle 2 Multi Gas Detector (LEL, O2, H2S, CO, VOC & Toxics) by RKI Instruments

Brand / manufacturer	RKI Instruments
Product codes	SKU: 722-001

Product description

RKI Instruments Eagle 2 (722-001, LEL & ppm / O2) 6-gas sample-draw monitor: the solution for just about any portable gas monitoring situation, well beyond standard confined-space LEL, O2, H2S and CO protection.

Key benefits

- Monitors up to 6 gases; ppm, % LEL or % vol auto-ranging combustible detection
- Easy access to auto-calibration, alarm silence, demand zero, peak hold and methane elimination
- Two user-adjustable alarm levels per channel (latching or self-resetting) plus TWA and STEL for toxics
- Optional PID for low or high ppm VOCs (0–50 and 0–2,000 ppm) with Fence Electrode Technology
- Optional TC sensor for % vol CH4 and H2; IR sensors for CO2, CH4 and HC; H2-specific LEL/ppm sensor
- Smart plug-and-play toxic sensors: NH3, AsH3, Cl2, HCN, PH3, SO2
- Strong internal pump draws samples up to 125 ft, with low-flow shut-off and alarm
- Over 18 hours on alkaline or 20 hours on NiMH batteries
- Datalogging standard on all sensors
- Internal hydrophobic dust filter; external probe with hydrophobic filter
- Multilingual (5 languages); RFI/EMI, chemical and weather-resistant enclosure
- Intrinsically safe design, CSA approved

Typical applications

- Confined space entry
- EPA Method 21 fugitive emission monitoring of VOC leaks from process equipment
- Environmental applications (methane elimination)
- Tank testing with float probes

Specifications

Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-PBT blend. Can operate in 2.0” of water without leakage. Ergonomically balanced with rugged top mounted handle. Water & dust resistant equivalent to IP64.
Dimensions	9.5” L x 5.25” W x 5.875” H
Weight	3.8 Lbs (standard 4 gas with batteries).
Detection Principle	Catalytic combustion, electrochemical cell, galvanic cell, infrared, Photoionization detector, and thermal conductivity.

Prepared by Russmill Safety from publicly available manufacturer information and our product listing. This is not the manufacturer’s original publication. For legally required safety data, use the manufacturer’s official Safety Data Sheet.

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Sampling Method	Powerful, long-life internal pump (over 6,000 hours) can draw samples over 125 feet. Flow rate approximately 2.0 SCFH.
Display	3 display modes: display all gases, large font-autoscroll, or large font-manual scroll. Polyurethane protected overlay. Backlight, illuminates for alarms and by demand, with adjustable time.
Language	Readout can display in 5 languages (English, French, German, Italian, or Spanish).
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 95 dB at 30 cm, four high intensity LED’s.
Controls	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.
Continuous Operation	At 70°F, 18 hours using alkaline batteries, or 20 hours using NiMH.
Power Source	4 alkaline or NiMH, size C batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	-20°C to 50°C (-4°F to 122°F), 0 to 95% RH, non-condensing.
Environmental	IP-64
Response Time	30 Seconds to 90% (for most gases) using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Groups A, B, C, D. Approvals: CSA / CE
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe, and 5 foot hose, internal hydrophobic filter.
Optional Accessories	• Dilution fitting (50/50) • NiMH batteries • Battery charger, 115 VAC, 220 VAC, or 12 VDC (charge time 4 hours) • Continuous operation adapter, 115 VAC or 12 VDC • Extension hoses • IRDA cable for datalogging download
Warranty	Two year material and workmanship, one year for PID sensor.

Information source

Russmill Safety product listing — https://www.russmillsafety.com/products/eagle-2-multi-gas-detector-lel-o2-h2s-co-voc-toxics-by-rki-instruments (listing notes product information supplied by the manufacturer, RKI Instruments)

Supplier / distributor contact

Supplier / distributor	Russmill Safety
Store	A1 Queen’s Highway, Suite 2–3, Freeport, Grand Bahama F42190, The Bahamas
USA warehouse (fulfilment)	1526 NW 23rd Avenue, Fort Lauderdale, FL 33311
Phone	Bahamas customer service +1 242 351 7623 · USA +1 954 333 8542 · Freeport store +1 242 688 3336
Email	customerservice@russmillsafety.com (customer service) · sales@russmillsafety.com (sales enquiries)
Website	https://www.russmillsafety.com