Soaring To New HEIGHTS
The Legacy Continues

Refineries

Fire & Hazmat

Landfills

Natural Gas

Chemical Plants

CH4 0%LEL
OXY 20.9vol%
H2S 0.0ppm
CO 0ppm
IBL 0ppm
NH3 0.0ppm

EAGLE 2

POWER ENTER RESET
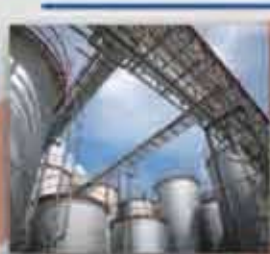
DISPLAY ADJUST NO

AIR ▲ YES

RANGE ▼ SHIFT

RKI
INSTRUMENTS

EAGLE 2

EAGLE 2

Inlet fitting

Loud buzzer (95dB)

IrDA communication port

Low flow shutoff and alarm

Alarm LED's with wide visibility

Internal / external
hydrophobic filters

3 Display modes:
- Display all gases
- Single gas view
  large type-auto scroll
- Single gas view
  large type-manual scroll

Self healing polyurethane
protective overlay

RKI
INSTRUMENTS

CH4	0%LEL
OXY	20.9vol%
H2S	0.0PPM
CO	0PPM
IBL	0PPM
NH3	0.0PPM

Programmable gas channel
positions

Powerful internal
sample draw pump
with 125' range

EAGLE 2

POWER ENTER RESET | DISPLAY ADJUST NO | AIR ▲ YES | RANGE ▼ SHIFT

3 Operating modes:
- Normal operating
- Leak check
- Bar hole sampling

4 button operation with
glow in the dark text

Glove friendly handle
and buttons

Chemical, water, and
dust resistant, RFI / EMI
protected high impact
case

PID sensor for low ppm
VOC detection

Smart plug & play sensors
for toxic gases

PPM, % LEL, or % Vol.
auto-ranging combustible
detection

Combine catalytic and
IR sensors for
combustible detection

Methane elimination for
environmental use

Multi-lingual (5 languages)

**3 Specialty
Channels**

**Standard 4
Gas Channels**

- PID (VOC)
- Toxics
  NH3, ASH3, Cl2
  HCN, PH3, SO2

Combustible •
O2 •
H2S •
CO •

**6 Channel
Capacity**

Option 1
Option 2
Option 3

- Infrared (IR)
  CO2, CH4, HC
- Thermal
  Conductivity
  CH4, H2

* Some combinations NOT compatible
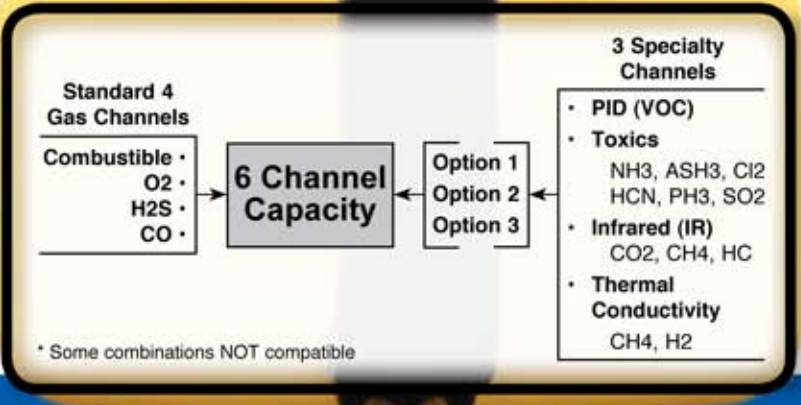
Interchangeable alkaline / NiMH
removable battery compartment

Battery compartment thumbscrew

Specifications

Enclosure	Weatherproof, chemical resistant, anti RFI / EMI coated high impact polycarbonate - PBT blend. Can operate in rain or be set into 2.0" of water without leakage. Ergonomically balanced with rugged top mounted handle.
Dimensions	9.5" L x 5.25" W x 5.875" H (241mm L x 140mm W x 149mm H)
Weight	3.8 Lbs (1.72kg) (standard 4 gas with batteries)
Detection Principle	Catalytic combustion, electrochemical, galvanic, infrared, photoionization, and thermal conductivity.
Sensor Life	2 Years under normal conditions.
Sampling Method	Powerful, long-life internal pump (over 6,000 hours) can draw samples over 125 feet. Flow rate approximately 2.0 SCFH
Display	Backlit 128 x 64 graphics display. Viewed through window in case top. Displays readings & status of all 6 channels simultaneously. Backlight, illuminates for alarms and by demand with adjustable time. Optional mode allows automatic or manual scrolling display of just one gas at a time with very large characters.
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, % Vol. alarm silence, peak hold, TWA/STEL values, battery status, conversion factors, and many other features.
Continuous Operation	At 70°F, (21°C) 16 hours using alkaline batteries, or 18 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	-4°F to 122°F (-20°C to 50°C), 0 to 95% RH, non-condensing.
Response Time	30 Seconds to 90% of range (for most gases) using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Division 1, Groups A, B, C, D. Approvals: CSA C US CE
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe, 5 foot hose, and 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
Warranty	Two year material and workmanship, one year for PID sensor

Specifications subject to change without notice

Sensor Technologies

Standard 4 Gas

Specialty Sensors

Smart Toxic Sensors

Catalytic

Hydrocarbons (CH_4, standard)	0 - 100% LEL 0 - 50,000 ppm (CH_4) 0 - 5% Vol. (CH_4)

LEL level detection displayed in % LEL, PPM, or % volume. Methane is the standard configuration. Other combustible gases available.

Galvanic

Oxygen (O_2)	0 - 40% Vol. 0 - 100% Vol.

A specific electrochemical sensor for oxygen monitoring.

Standard Electrochemical

Carbon Monoxide (CO)	0 - 500 ppm
Hydrogen Sulfide (H_2S)	0 - 100 ppm

Extra long-life CO and H_2S sensors.

Photoionization Detection (PID)

Volatile Organic Compound (VOC)	0 - 50 ppm 0 - 2,000 ppm

Monitor low ppm VOC gases.

Infrared

Carbon Dioxide (CO_2)	0 - 10,000 ppm 0 - 5% Vol. 0 - 60% Vol.
Methane (CH_4)	0 - 100% LEL 0 - 100% Vol.
Hydrocarbons	0 - 100% LEL 0 - 30% Vol.

Monitor combustible gases in inert environments. Monitor wide range of CO_2.

Thermal Conductivity

Methane (CH_4)	0 - 100% Vol.
Hydrogen (H_2)	0 - 10% Vol. 0 - 100% Vol.

Monitor % volume methane or hydrogen.

Smart Electrochemical

Ammonia (NH_3)	0 - 75 ppm
Arsine (AsH_3)	0 - 1.5 ppm
Chlorine (Cl_2)	0 - 3 ppm
Hydrogen Cyanide (HCN)	0 - 15 ppm
Phosphine (PH_3)	0 - 1 ppm
Sulfur Dioxide (SO_2)	0 - 6 ppm

Monitor a wide variety of toxic gases. Smart plug and play sensors are auto recognized and can be remotely calibrated.

Accessories

A. Battery charger / continuous operation adapter, AC and DC versions

B. Variety of sample hose lengths

C. Float probe, auto shut off when probe contacts water

D. PID service kits

E. Calibration kits

F. Carrying cases

G. Calibration station

H. Rechargeable NiMH batteries

User Selectable Options

Date and Time	User and Station ID	Calibration Interval
Date Format	Autocal Values	Leak Check / Bar Hole Mode
Battery Type	Backlight Delay	Bar Hole Measurement Time
Configuring Channels	Auto Fresh Air	Operation Confirmation Alert
Combustible Gas Selection	Data Log Interval	Password Function On or Off
Catalytic Detection Units	Data Log Overwrite	Factory Default
Relative Response On or Off	Data Log Memory	Lunch Break
Alarm Points	LCD Contrast	Language
Alarm Latching	Calibration Reminder	Span Factor
Alarm Silence	Calibration Past Due Action	

Made in USA

RKI
INSTRUMENTS

10000363   ISO 9001

Toll Free: (800) 754-5165 • Phone: (510) 441-5656 • Fax: (510) 441-5650
www.rkieagle2.com

World Leader In Gas Detection & Sensor Technology

Authorized Distributor:

CONFINED SPACE ENTRY

- Monitor LEL, O2, CO, and H2S
- Internal sample pump
    - ◊ *Pull samples up to 125'*
    - ◊ *Maintain steady sample flow to sensors*
- Audible and visual alarms
    - ◊ *2 Ways to communicate with workers*
- Ideal for refinery applications

LEAK INVESTIGATION

- Provides low ppm detection of combustible gas
- Barhole mode for tracking leak migration
- Leak check with changing blink / pulsing rate
    - ◊ *LED's and alarm tones increase in frequency as gas concentration increases*
- Audible alarm silence
    - ◊ *Perform leak investigations without alarming residents*

LINE PURGE TESTING

- Thermal conductivity sensor
    - ◊ *0 to 100% volume Methane / Hydrogen range*
- Autoranging IR
    - ◊ *Automatically changes from % LEL to % Vol.*
    - ◊ *Displays appropriate unit of measure*

VOC MONITORING

- Robust photoionization detector (PID)
- Two ranges available,
    - ◊ *0-50 ppm or 0-4,000 ppm*
- Can be combined with other sensors to maximize capability
- Method 21

TRANSFORMER TESTING

- Determine transformer health by sampling head space
- Measure Hydrogen (and other flammable gases) and Oxygen in nitrogen blanket
- Increasing flammable gas levels in head space indicates failing transformer

LANDFILL MONITORING

- LEL / PPM and 0-100% volume Methane
- 0-60% Carbon Dioxide range
- Can be combined with other sensors (O2/H2S/CO) to maximize capability

RKI Instruments, Inc.