

Product Catalog



FIXED SYSTEMS
Controllers
Explosion Proof Transmitters
Harsh Environment Systems
Digester Gas Monitor



PORTABLE SOLUTIONS
Smallest Confined Space Personal
6 Gas with PID, IR and Toxic
Single Gas Personal, Benzene
Formaldehyde
Solutions



Gas Detection For Life





Gas Detection for Life

Dear Customer,

RKI Instruments, Inc. is an innovative gas detection company located in Union City, California. RKI was established in 1994 by Sandra Gallagher and myself. We both believe that customers and distributors deserve a reliable source for advanced gas detection equipment as well as solutions to specific gas monitoring applications.

RKI is partnered with Riken Keiki Co. Ltd., the world leader in gas detection and sensor technologies. In business for over 75 years, Riken has sold over 800,000 portable and fixed gas monitors worldwide with annual sales exceeding \$260 million. They have over 700 employees, a large number of which are engineers and scientists. RKI is the exclusive North American supplier of Riken products.

Every year, RKI has continued to achieve a high level of growth which is attributed to our sales and support of Riken products and the ability to develop our own line of products around Riken's long lasting sensors. This capability of sales, support, and development is made possible by our seasoned professionals. RKI employees average 12 years of gas detection experience, and the top 6 executives combined industry experience totals over 180 years.

This combination of quality products and knowledgeable supportive people provides you with the ability and opportunity to confidently face almost any gas monitoring application, with equipment built to last. When you call RKI, you will get solutions and answers to your gas detection needs.

RKI provides Gas Detection for Life. Not only will our equipment protect your life and property from the hazards of gases and vapors, but with proper care, it may also be the last gas detector you will ever need to purchase.

Sincerely,

A handwritten signature in black ink that reads 'Bob Pellissier'.

Bob Pellissier
President



6 Gas Sample Draw With PID, IR And Super Toxics

GX-6000

Monitor up to 6 gases:

- LEL, O2, H2S, CO
- 2 Smart sensor slots
 - PID for VOC's
 - IR for CH4, HC, & CO2
 - EC for NH3, Cl2, HCN, NO2, & SO2

6 Operating modes

- Normal
- Leak Check
- Inert
- Bar Hole
- Snap Log
- Benzene Specific Mode

PID Library of more than 600 VOC's

- Accepts 10.6 and / or 10.0 PID lamps
- 50,000 ppb / 6,000 ppm ranges
- Easily choose a target VOC
 - User defined VOC list of 30
 - Recently used VOC list of last 8

Glove friendly glow in the dark buttons

Interchangeable battery options

- Lithium-ion pack operates 14 hours
 - Complete recharge in 3 hours
- Alkaline pack operates 8 hours

Weather & dust resistant

- IP-67

9 Languages

- English, Spanish, French, German, Italian, Japanese, Korean, Portuguese, Russian



Alarms

- 2 Adjustable gas alarms per channel
- Man down alarm
- Panic alarm
- 4 Alarm LED's
- Audible and vibration alarms
- Trouble alarms for low flow, sensor connection, low battery, circuit error and calibration

LED Flashlight

- On demand light source

LCD Display

- Auto flip display
- Peak bar graphs
- Adjustable auto backlight
- Customize order of gases
- Single gas view with large font and auto sequence

LEL protection mode

- Shields LEL sensor from damaging high hydrocarbon exposure

Intrinsically Safe

- ATEX / IECEx
- cCSAUs

New: Benzene Specific Option



PID Sensors (Smart Sensors)

| | Gas | Measuring Range | Reading Increment | Alarm Set Points |
|-----------|------------------|-----------------|---|---------------------------------|
| 10.6 Lamp | 600 VOC's | 0 - 50,000 ppb | 1 ppb: (< 5000 ppb) 10 ppb: (> 5,000 ppb) | A1: 5,000 ppb A2: 10,000 ppb |
| | | 0 - 6,000 ppm | 0.1 ppm: (< 600 ppm) 1 ppm: (> 600 ppm) | A1: 400 ppm A2: 1,000 ppm |
| 10.0 Lamp | Benzene Specific | 0.1 - 50 ppm | 0.01 ppm (0 - 10 ppm) 0.1 ppm (10 - 50 ppm) | No Alarms |
| | 300 VOC's | 0 - 100 ppm | 0.01 ppm (0 - 10 ppm) 0.1 ppm (10 - 100 ppm) | A1: 5 ppm A2: 10 ppm |



SDM-6000
Calibration Station With
Touch Screen Display

4 Gas Sensor Slots

| Gases & Detectable Ranges | | |
|---------------------------|-----------------|------------------|
| Gas | Measuring Range | Alarm Set Points |
| Catalytic | | |
| Hydrocarbons (CH4, std) | 0 - 100% LEL | A1: 10% LEL |
| | | A2: 50% LEL |
| Galvanic | | |
| Oxygen (O2) | 0 - 40% vol. | A1: 19.5 vol. |
| | | A2: 23.5 vol. |
| Electro Chemical | | |
| Carbon Monoxide (CO) | 0 - 500 ppm | A1: 25 ppm |
| | | A2: 50 ppm |
| | | TWA 25 ppm |
| | | STEL 200 ppm |
| Hydrogen Sulfide (H2S) | 0 - 100 ppm | A1: 5.0 ppm |
| | | A2: 30.0 ppm |
| | | TWA 1.0 ppm |
| | | STEL 5.0 ppm |

2 Smart Sensor Slots

| Gases & Detectable Ranges | | |
|----------------------------|---------------------------------|--------------------------|
| Gas | Measuring Range | Alarm Set Points |
| IR Sensors | | |
| Carbon Dioxide (CO2) | 0 - 10,000 ppm 0 - 10% vol. | A1: 5,000 ppm |
| | | TWA 5,000 ppm |
| | | STEL 30,000 |
| Methane (CH4) | 0 - 100% LEL / 0 - 100% vol. | A1: 10% LEL |
| | | A2: 50% LEL |
| Hydrocarbons | 0 - 100% LEL / 0 - 30% vol. | A1: 10% LEL |
| | | A2: 50% LEL |
| Toxics (EC Sensors) | | |
| Ammonia (NH3) | 0 - 400 ppm | A1: 25 ppm A2: 50 ppm |
| Chlorine (Cl2) | 0 - 10 ppm | A1: 0.5 ppm |
| | | A2: 1.0 ppm |
| Hydrogen Cyanide (HCN) | 0 - 15 ppm | A1: 5 ppm A2: 10 ppm |
| Nitrogen Dioxide (NO2) | 0 - 20.0 ppm | A1: 3 ppm A2: 6 ppm |
| Sulfur Dioxide (SO2) | 0 - 99.9 ppm | A1: 2 ppm |
| | | A2: 5 ppm |

Confined Space / Leak Detector / Bar Hole Sample Draw Monitor

GX-2012

Monitors

- PPM/LEL/% vol CH4
- O2
- CO
- H2S



- Internal hydrophobic filter
- 3 bright visual alarm LED's (top and sides)
- 95 db audible & vibration alarm
- Status indicators
 - Pump activity
 - Blinking heart (microprocessor status)
 - Battery level
- Time indicator
- Datalogging standard
 - Snapshot logging
 - Bar hole logging
 - Calibration and bump test records
- Combustible display automatically switches between % LEL and % volume
- Peak level bar display
- IP-67
- Glove friendly buttons
- ATEX / IECEx
- CSA

The GX-2012 is RKI's smallest personal 1-5 sensor gas monitor with a built in sample pump. Having 3 operating modes, the GX-2012 can be used for confined space, safety monitoring in it's Normal Operating mode; for leak investigation in Leak Check mode; and for underground leak checking in Bar Hole mode. When equipped with an optional TC sensor, the GX-2012 can measure 100% volume methane and dynamically auto range from % LEL to % volume. This is ideal for line purge testing.



Alkaline Battery Pack

Interchangeable Battery Packs



Lithium-ion Battery Pack

| Standard Confined Space Gases | | | |
|---|---|----------------------|--|
| Gas Detected | Detection Range | Detection Principle | Alarm Levels |
| Combustible Gases (Methane as standard) | 0 - 100% LEL 0 - 500 / 1,000 / 2,000 / 5,000 ppm | Catalytic combustion | 1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL |
| % volume Methane | 0 - 100% vol. | Thermal conductivity | No alarms for % vol. CH4 |
| Oxygen (O2) | 0 - 40.0% vol. (0.1% vol.) | Galvanic cell | Low alarm 19.5% High alarm 23.5% Over alarm 40.0% |
| Carbon Monoxide (CO) | 0 - 500 ppm (1 ppm) | Electrochemical cell | 1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm |
| Hydrogen Sulfide (H2S) | 0 - 100.0 ppm (0.5 ppm) | Electrochemical cell | 1st 5 ppm 2nd 30 ppm TWA 1 ppm STEL 5 ppm Over 100 ppm |



SDM 2012 Calibration Station

- Bump test and calibration records copy to USB jump drive
- Save Bump Test and Calibration records
- Stand-alone station (no PC Required)
- Includes PC software for viewing / archiving bump test and calibration records
- Multiple modules connected to a PC (10 max)
- 2 Calibration gas ports

LEL, O₂, H₂S, CO

Smallest Four Gas Personal Monitor

GX-2009

Monitors

- LEL
- O₂
- CO
- H₂S

3 bright visual alarm LED's (top and sides)

Impact resistant rubber over-mold body. Dust and water resistant with IP-67 approval

Automatic backlight at alarm

Time indicator

Battery level

Glove friendly buttons

Field replacable micro sensors

95 db audible & vibration alarm



The GX-2009 is the smallest and lightest 4-gas monitor in the world. Weighing only 4.6 ounces and fitting in the palm of your hand (2.75" H x 2.95" L x .98" D), the GX-2009 simultaneously monitors combustibles, oxygen, carbon monoxide, and hydrogen sulfide. Alarm conditions are annunciated from multiple perspectives with dual audible alarm ports and alarm LED's on 3 sides of the instrument.



SDM 2009 Calibration Station

- Automatically calibrate, bump test, retrieve data, and charge
- Connect up to 10 stations per computer
- Centralize data from multiple cal stations and computers to one network location
- Stand-alone station (no PC required)

| Standard Confined Space Gases | | | |
|---|----------------------------|----------------------|--|
| Gas Detected | Detection Range | Detection Principle | Alarm Levels |
| Combustible Gases (Methane as standard) | 0 - 100% LEL (1% LEL) | Catalytic combustion | 1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL |
| Oxygen (O ₂) | 0 - 40.0% vol. (0.1% vol.) | Galvanic cell | Low alarm 19.5% High alarm 23.5% Over alarm 40.0% |
| Carbon Monoxide (CO) | 0 - 500 ppm (1 ppm) | Electrochemical cell | 1st alarm 25 ppm 2nd alarm 50 ppm TWA alarm 25 ppm STEL alarm 200 ppm Over alarm 500 ppm |
| Hydrogen Sulfide (H ₂ S) | 0 - 100.0 ppm (0.5 ppm) | Electrochemical cell | 1st alarm 5 ppm 2nd alarm 30 ppm TWA alarm 1 ppm STEL alarm 5 ppm Over alarm 100 ppm |



Multi Unit chargers



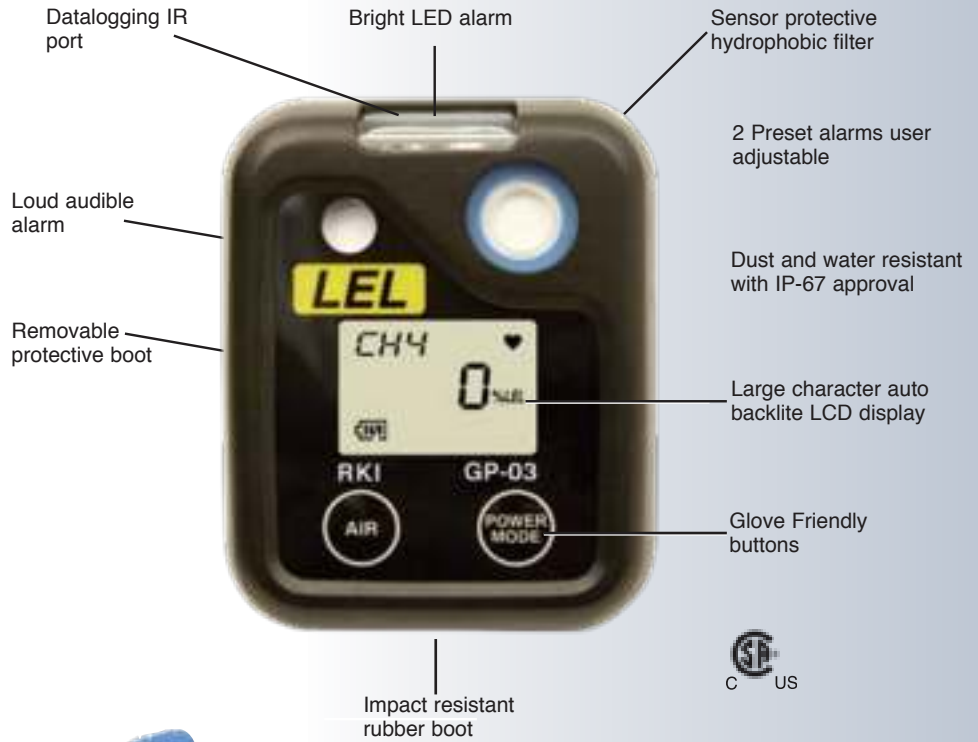
RP 2009 Attachable Sample Draw Pump

- Samples up to 30'
- Independent power source operates 8 hours on 1 AA battery
- Attaches to GX-2009 gas monitor in seconds
- Audible and visual alarms for low flow and low battery
- Pilot light to confirm operation
- Includes probe with dust filter

Single Gas Clip-On Personal Series

03 Series

The GP-03, OX-03, HS-03, and CO-03 models are personal single gas monitors designed for personal protection from combustible hydrocarbons, oxygen deficiency, hydrogen sulfide, or carbon monoxide. The OX-03, HS-03, and CO-03 models continuously operate over 3,000 hours on (2) AAA size alkaline batteries. The GP-03 operates for 35 hours on alkaline batteries and 30 on rechargeable Ni-MH. The 03 models have 2 preset alarms that are user adjustable and each version is also equipped with visual, audible, and vibration alarms. The replacement sensors are inexpensive, easily field replaceable, and are interchangeable with other RKI monitors such as the GX-2009, GX-2012, 01-Series and GasWatch 2 models.



LEL, O₂, H₂S and CO



360° rotation alligator clip

- 4 Gases to choose from LEL, O₂, H₂S, or CO
- Operates 3,000 hours on alkaline batteries
- GP-03 operates 35 hours Alkaline, 30 hours Ni-MH
- Removable protective boot
- Comfortable to wear near breathing zone
- Alligator clip, rotates 360°
- Audible, visual, and vibration alarms
- Peak hold, STEL & TWA readings
- Datalogging
- Impact and water resistant
- Intrinsically safe, CSA / C / US, ATEX
- 3 Year warranty, HS-03 & CO-03
- 2 Year warranty, GP-03 & OX-03



| Standard Confined Space Gases | | | |
|-------------------------------------|-------------------------------------|----------------------|--|
| Gas Detected | Detection Range | Detection Principle | Preset Alarms (User adjustable) overscale alarm Non-adjustable) |
| Carbon Monoxide (CO) | 0 - 50 ppm (1 ppm) | Electrochemical | 1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm |
| Hydrogen Sulfide (H ₂ S) | 0 - 100 ppm (0.5 ppm) | Electrochemical | 1st 5 ppm 2nd 30.0 ppm TWA 1.0 ppm STEL 5.0 ppm Over 100.0 ppm |
| Oxygen (O ₂) | 0 - 40%vol. (0.1% vol.) | Galvanic cell | Low 19.5% vol. High 23.5% vol. Over 40.0% vol. |
| Combustible gas | 0 - 100% LEL (1% LEL increments) | Catalytic combustion | 1st 10% LEL 2nd 50% LEL Over 100% LEL |



SDM-03 Series Calibration Station

6 Gas (PID, TC, IR, and Smart EC Sensors)

EAGLE 2



The EAGLE 2 features a PID sensor for detecting high or low ppm levels (0-50 or 0-2,000) of VOC gases; % volume capability for CH₄ and H₂ using a TC (thermal conductivity) sensor; PPM or LEL hydrocarbon detection at the push of a button; infrared sensors for CO₂ (ppm or % volume), methane or hydrocarbons in LEL and % volume ranges; methane elimination feature for environmental applications; and a variety of super toxic gases. 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 125 feet. The EAGLE 2 will continuously operate for over 18 hours on alkaline batteries or 20 hours on NiMH. Datalogging is a standard feature for all sensors on all versions.



IDEAL FOR:

- Confined space entry
- VOC monitoring
- Leak investigation
- Line purge testing
- Landfill monitoring
- Transformer gas testing
- EPA Method 21 for fugitive emissions



SDM-E2
Calibration Station

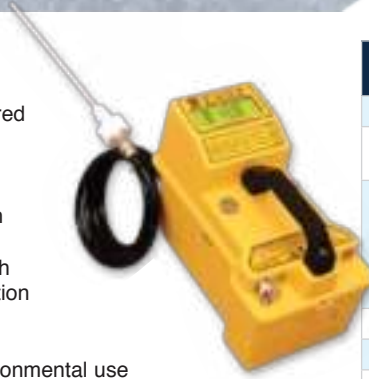
| Standard Confined Space Gases | |
|--|---|
| Hydrocarbons (CH ₄ , std) | 0 - 100% LEL 0 - 50,000 ppm 0 - 5% vol. |
| Oxygen (O ₂) | 0 - 40% vol. |
| Carbon Monoxide (CO) | 0 - 500 ppm |
| Hydrogen Sulfide (H ₂ S) | 0 - 100 ppm |
| Super Toxics and Other Gases | |
| Ammonia (NH ₃) | 0 - 75 ppm |
| Arsine (AsH ₃) | 0 - 1.5 ppm |
| Carbon Dioxide (CO ₂) (IR Sensor) | 0 - 10,000 ppm 0 - 5% vol. 0 - 60% vol. |
| Chlorine (Cl ₂) | 0 - 3 ppm |
| Hydrogen Cyanide (HCN) | 0 - 30 ppm |
| Hydrogen Sulfide (H ₂ S) | 0 - 30 ppm |
| Methane (CH ₄) (IR Sensor) | 0 - 100% LEL 0 - 100% vol. |
| HC IR | 0 - 100% LEL 0 - 30% vol. |
| Phosphine (PH ₃) | 0 - 1 ppm |
| Sulfur Dioxide (SO ₂) | 0 - 6 ppm |

6 Gas (Wide Range of Super Toxics)

EAGLE

FEATURES

- Monitor up to 6 gases
- Electrochemical, catalytic, and infrared sensor technologies
- PPM/LEL hydrocarbon detection
- Low flow alarm
- Powerful long-life internal pump with over 125' range
- Security "Adjustment Lockout" switch
- Up to 30 hours of continuous operation
- Alkaline or Ni-Cad capable
- Will operate in up to 2" of water
- Methane elimination switch for environmental use
- Meets EPA Method 21 protocol for fugitive emissions testing (most applications)
- Transformer gas testing versions available
- Intrinsically safe, CSA, C/US & UL Classified



| Super Toxics and Other Gases (additional Toxic gases available) | | Super Toxics and Other Gases (additional Toxic gases available) | |
|--|--|--|--------------------------------|
| Ammonia (NH ₃) | 0 - 75 ppm | Methane (CH ₄) (IR Sensor) | 0 - 100% LEL 0 - 100% vol. |
| Arsine (AsH ₃) | 0 - 1 ppm 0 - 200 ppb | Isobutane (C ₄ H ₁₀) (IR Sensor) | 0 - 100% LEL 0 - 30% vol. |
| Carbon Dioxide (CO ₂) (IR Sensor) | 0 - 5,000 ppm 0 - 10,000 ppm 0 - 5% vol. 0 - 20% vol. 0 - 60% vol. | Nitrogen Dioxide (NO ₂) | 0 - 15 ppm |
| Chlorine (Cl ₂) | 0 - 3 ppm | Nitric Oxide (NO) | 0 - 100 ppm |
| Chlorine Dioxide (ClO ₂) | 0 - 1 ppm | Phosphine (PH ₃) | 0 - 1 ppm |
| Fluorine (F ₂) | 0 - 5 ppm | Silane (SiH ₄) | 0 - 15 ppm |
| Hydrogen Fluoride (HF) | 0 - 9 ppm | Sulfur Dioxide (SO ₂) | 0 - 10 ppm |
| Hydrogen Chloride (HCl) | 0 - 15 ppm | Standard Confined Space Gases | |
| Hydrogen Cyanide (HCN) | 0 - 30 ppm | Hydrocarbons (CH ₄ , std) | 0 - 100% LEL 0 - 50,000 ppm |
| Hydrogen Sulfide (H ₂ S) | 0 - 1 ppm 0 - 30 ppm | Oxygen (O ₂) | 0 - 40% vol. |
| | | Carbon Monoxide (CO) | 0 - 500 ppm |
| | | Hydrogen Sulfide (H ₂ S) | 0 - 100 ppm |

NH₃, AsH₃, CO, Cl₂, HCN, H₂S, PH₃, SO₂

Single Toxic Gas Monitor

SC-01



FEATURES

- Smart interchangeable sensors
- Unique extender cable for remote monitoring
- 250 hours of continuous operation
- Operates on 2 "AA" alkaline batteries
- Audible, visual, and vibration alarms
- Impact resistant protective rubber boot
- Intrinsically safe, CSA, C/US
- Data Logging standard

| Gas | Range |
|-------------------------------------|--------------|
| Ammonia (NH ₃) | 0 - 75 ppm |
| Arsine (AsH ₃) | 0 - 1.5 ppm |
| Carbon Monoxide (CO) | 0 - 75 ppm |
| Chlorine (Cl ₂) | 0 - 3.00 ppm |
| Hydrogen Cyanide | 0 - 15 ppm |
| Hydrogen Sulfide (H ₂ S) | 0 - 30.0 ppm |
| Phosphine (PH ₃) | 0 - 1.00 ppm |
| Sulfur Dioxide (SO ₂) | 0 - 6.00 ppm |

Formaldehyde Specific Monitor

HCHO

FP-31



The FP-31 is a highly specific gas detector utilizing a proprietary colorimetric paper tablet to detect Formaldehyde. The instrument has a digital readout of the gas concentration on an LCD display. Readings are of average formaldehyde exposure over a selectable 15 minute or 30 minute period. This instrument does not respond to typical interference gases such as acetaldehyde, acetone, alcohols, ammonia, benzene, carbon monoxide, toluene or xylene.

FEATURES

- Specific to formaldehyde
- No interferences
- Built-in sample draw pump
- Colorimetric tablet method
- Stores 99 readings
- Operates for 12 hours
- datalogging

| FP-31 Detection Ranges | |
|------------------------|--------------------------------------|
| 30 Minute Test | 0 - 0.4 ppm (0.005 ppm increment) |
| 15 Minute Test | 0 - 1.0 ppm (0.01 ppm increment) |

HC, CH4, O2

Dual Gas IR With Marine Approvals

RX-8000

FEATURES

- Real time detection for 100% LEL/ 100% volume HC and O2
- 3 Bright alarm LED indicators
- Loud alarm buzzer with 95 dB
- 30 meter sample range
- Water and dust resistant IP-67
- Charge display with bar graph and auto backlight
- 3 Bright LED alarm windows
- Lithium-ion rechargeable battery (optional)



| Target Gas | Combustibles (i-C4H10 or CH4 calibration) | | Oxygen (O2) |
|---------------------------------|--|----------------------------|---|
| Detection Principle | Non-Dispersive Infrared | | Galvanic cell |
| Detection Range (Increments) | 0 - 100 vol% (0.5 vol%) | 0 - 100 LEL% (0.5% LEL) | 0 - 40% (0.1%) |
| Accuracy | +/- 5 vol% | +/- 5% LEL | Range 0 - 25% +/- 0.7% Range 26 - 40% +/- 3.0% |
| Response Time | T90 within 30 seconds | | T90 within 20 seconds |
| Sampling Method | Sample Draw: Minimum 0.75L/min | | |
| Power Source | Lithium-ion battery (3 hours for a full charge) Standard AA Alkaline battery (3pcs) Option | | |
| Continuous Operation | AA Alkaline battery: more than 10 hours Lithium-ion battery: more than 15 hours | | |
| Operating Temp & Humidity | -20 - + 50C (-4 - + 122 F) below 95% Rh (Non-condensing) | | |
| Dimensions & Weight | Approx. 154 (W) x 81 (H) x 127 (D) mm Approx. 1.0 Kg Approx. 6.1" (W) x 3.1" (H) x 5.0" (D) Approx. 2.4lb | | |
| Explosion Proof | EX ia II C T4 | | |
| Additional Features | Indication to show operation (pilot indicator and pump driving indicator), Activated confirmation beep and LED's flash (every minute), Pump stop function, Bump test function, IrDA communication, Data logger, Password protection | | |
| Standard Accessories | Lithium-ion battery, AC powered charger (100V-240V), Gas sampling probe, Gas sampling hose (3.2 ft), Neck / shoulder strap, Filter tube, Strap for filter tube, Manual | | |



Certifications:
IECEX, ATEX, TIIS, HK
Complying to IEC60079-29-1, EN50104

H2S, HC, CH4, CO2

3 and 4 Gas IR with Marine Approvals

RX-515 / RX-516 / RX-517

FEATURES

- Dual range detection of % vol. and % LEL for CH4 or HC
- Accurately monitor inert locations for CH4 / HC
- Dual Range H2S 0-100 & 0-1,000 ppm
- High range H2S 0-1,000 ppm available (RX-517)
- Explosion proof / Intrinsically safe design
- Datalogging (Max 30 hours of interval trend)

LNG Carriers

RX-515: CH4 / O2 (25% vol.) / CO
(1,000 ppm) / CO2 (20% vol.)

Oil Tankers

RX-516: HC / O2 / H2S (100 ppm)
RX-517: HC / O2 / H2S (1,000 ppm) & (100 ppm)

Certifications:

Exiad II BT3X (Alkaline batteries
"Size C" only), KIMM approved



Wall Mount Controllers

Beacon Series





The Beacon 110, 200 and 410A controllers can monitor any combination of direct connect sensors as well as any 4-20mA transmitter. The Beacon 800 works with 4-20mA transmitters only. Available in 1, 2, 4, and 8 channels, respectively, each channel has configurable alarm points. Audible and visual indications alert you to alarm conditions.

Each channel also has dedicated fully configurable relays and each controller has a bank of common relays. The common relays can be configured as additional relays on the Beacon 410A allowing for more alarm relays, optional on Beacon 800. Each channel provides a 4-20mA output signal. A digital Modbus interface for remote communication of data via a Modbus network is standard on the Beacon 410A.

A fully configurable, high visibility strobe is available as an option (except Beacon 800). The unit can be powered from 115/220 VAC, or an external 24 VDC source. A trickle charging battery backup feature with battery assembly is also available.

FEATURES

- Accepts direct wire sensors for:
LEL, O₂, H₂S, CO, CO₂,
Toxic direct wire sensors
- Digital display of gas and concentration
- Accepts any 4-20 mA transmitter
- Provides 4-20 mA output
- Programmable alarm levels
- Configurable alarm relays per channel
- Programmable common relays — Beacon 410A
- Audible alarm with reset button
- Weatherproof, NEMA 4X enclosure
- 115/220 VAC or 24 VDC operation
- Built-in trouble alarm with relay
- RFI / EMI resistant

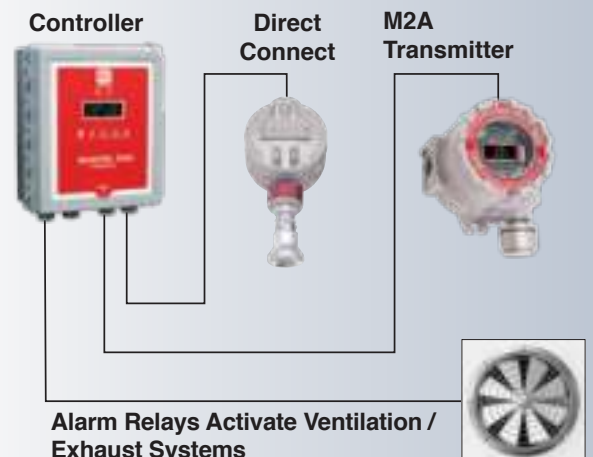
| | Channels | Alarm levels per channel | Relays per channel | Common relays | Direct connect sensors |
|--|----------|--------------------------|--------------------|---------------|------------------------|
|  | 1 | 2 | 3 | N/A | Yes |
|  | 2 | 2 | 3 | 3 | Yes |
|  | 4 | 3 | 3 | 5 | Yes |
|  | 8 | 2 | 3 | 3 | No |

Beacon 110

Beacon 200

Beacon 410A

Beacon 800



LEL, H₂, H₂S, CO, O₂, CO₂, CH₄, HC,
NH₃, ASH₃, Cl₂, ClO₂, PH₃, HCN, SO₂

Explosion / Non Explosion Proof Sensor Stand Alone Transmitter

M2A

The M2A™ model is an explosion proof transmitter that can operate as a stand-alone system or as part of a system connected with an analog or digital signal to a controller, PLC, or DCS. A non explosion proof version is also available for certain gases.

The M2A utilizes a magnetic wand technique for performing non-intrusive calibration. The housing does not need to be opened for zeroing or calibration, making it unnecessary to declassify the area for routine maintenance. It is designed so that a complete field calibration can be performed by one person.

FEATURES

- Direct digital readout
- H₂ Specific version available
- Explosion proof housing
- Operates independently or with any controller, PLC or DCS
- Non intrusive calibration via magnetic wand
- 2 programmable alarm relays, plus fail relay
- Auto zero drift correction
- Remotely mount sensor with calibration adapter
- IR sensors available for LEL & CO₂, % vol. CH₄ & HC



LEL, H₂, H₂S, CO, O₂, CO₂, CH₄, HC,
NH₃, ASH₃, Cl₂, ClO₂, PH₃, HCN, SO₂

Explosion / Non Explosion Proof Sensor / Transmitter

S2

The S2 Series transmitter electronics are encased inside a potted package to avoid damage from mechanical abuse or corrosion, and housed in an explosion-proof enclosure. Some sensors are available as explosion-proof with flame arrestors and approved for use in hazardous atmospheres. S2 transmitters are also available with stainless steel enclosures.

Field calibration can be performed easily and quickly by one person. The only tools required to calibrate the S2 Series are a voltmeter, screwdriver, and cal gas. The amplifier has test jacks for connecting to a voltmeter for calibration purposes.

FEATURES

- Explosion proof housing
- Stainless steel enclosures available
- Patented water repellent sensor coating
- IR sensors available for LEL & CO₂, % vol. CH₄ & HC
- H₂ Specific LEL and ppm versions available
- Remotely mount sensor with calibration adapter



LEL, H₂, H₂S, CO, O₂, CO₂, CH₄, HC,
NH₃, ASH₃, Cl₂, ClO₂, PH₃, HCN, SO₂

Explosion / Non Explosion Proof Sensor

Direct Connect

The Direct Connect sensors can be used in two different ways. The sensors can be mounted directly to the controllers as a complete stand alone system, or they can be mounted to explosion proof junction boxes for remote detection.

The toxic sensors are electrochemical type plug-in sensors, which provide high specificity, fast response, and long life. The plug-in design allows quick replacement in the field with no tools required.

The Direct Connect sensors can be used either indoors or outdoors. The flame arrestors for the explosion-proof versions utilize a patented coating, which make them water repellent. Also, splash-guards are available for use in wet environments. An optional stainless steel junction box is available for corrosive environments.

FEATURES

- Connect directly to a Beacon controller
- Explosion proof housing
- Stainless steel enclosures available
- IR sensors available for LEL & CO₂, % vol. CH₄ & HC
- Patented water repellent sensor coating
- Remotely mount sensor with calibration adapter



Smart Sample Draw Transmitter

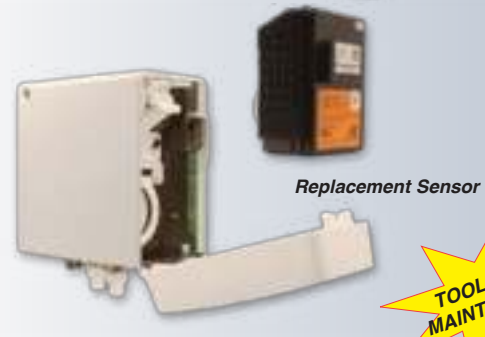
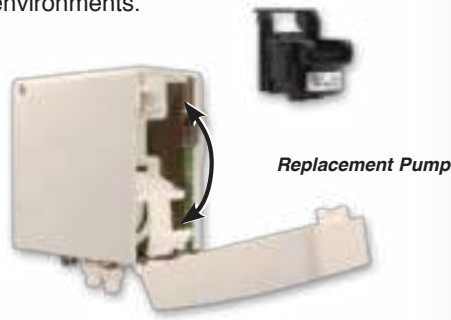
GD-70D

| GD-70D Toxic Gases & Ranges | |
|-----------------------------|--------------------|
| Measurable Gases | Range |
| Ammonia | 0 - 75 ppm |
| Arsine | 0 - 0.2 or 1.5 ppm |
| Boron Trichloride | 0 - 15 ppm |
| Boron Trifluoride | 0 - 9 ppm |
| Bromine | 0 - 1 ppm |
| Carbon Monoxide | 0 - 75,150,300 ppm |
| Chlorine | 0 - 3 ppm |
| Chlorine Trifluoride | 0 - 0.6 ppm |
| Diborane | 0 - 0.3 ppm |
| Dichlorosilane | 0 - 15 ppm |
| Diethylamine | 0 - 15 ppm |
| Dimethylamine | 0 - 15 ppm |
| Disilane | 0 - 15 ppm |
| Fluorine | 0 - 3 ppm |
| Germane | 0 - 0.8 ppm |
| Hydrogen Bromide | 0 - 6 or 9 ppm |
| Hydrogen Chloride | 0 - 6 or 15 ppm |
| Hydrogen Cyanide | 0 - 15 ppm |
| Hydrogen Fluoride | 0 - 3 or 9 ppm |
| Hydrogen Selenide | 0 - 0.2 ppm |
| Hydrogen Sulfide | 0 - 1 or 30 ppm |
| Nitric Oxide | 0 - 100 ppm |
| Nitrogen Dioxide | 0 - 9 or 15 ppm |
| Nitrogen Tetraoxide | 0 - 15 PPM |
| Ozone | 0 - 0.6 ppm |
| Phosphine | 0 - 1 ppm |
| Silane | 0 - 15 ppm |
| Silicon Tetrachloride | 0 - 15 ppm |
| Silicon Tetrafluoride | 0 - 9 ppm |
| Sulfur Dioxide | 0 - 6 ppm |
| Sulfur Tetrafluoride | 0 - 9 ppm |
| Tetraethyl Orthosilicate | 0 - 15 ppm |
| Trichlorosilane | 0 - 15 ppm |
| Trimethylamine | 0 - 15 ppm |
| Tungsten Hexafluoride | 0 - 9 ppm |

The GD-70D smart sample-draw transmitter offers an array of plug and play intelligent sensor technologies, including electrochemical sensors for a wide range of toxic gases and oxygen; MOS for H₂, IPA, and methanol; catalytic sensors for combustibles; and a pyrolyzer sensor for TEOS and NF₃.

These smart sensors retain all calibration and sensor-specific data in non-volatile memory, so sensors can be hot-swapped in the field with no programming required. The sensors also retain calibration information, which means they can be conveniently calibrated separate from the transmitter, avoiding transport of calibration gases to field locations.

The long life high capacity pump and wide variety of sensing elements are replaceable in a few seconds, with no tools required! The GD-70D can be used as a stand-alone device, offering a number of communication protocols to existing PLC systems, or can be integrated with RKI's Beacon series of single and multi-channel controllers. An optional NEMA 4X enclosure is available for harsh environments.



| SENSOR UNIT | | | | | |
|-------------------------|---|--|---------------------|-----------------------------|--|
| Model | ESU | SGU | SSU | OSU | NCU |
| Detection principle | Electrochemical cell | Semiconductor | Pyrolysis-particle | Galvanic cell | Catalytic combustion |
| Gas detected | Refer to table of toxic gases | H ₂ , CH ₄ , IPA, Methanol, R-32 | 0-15ppm TEOS in air | 0-25% O ₂ in air | 0-100% LEL H ₂ , CH ₄ , and others |
| Self diagnosis function | Sensor trouble, system failure | | | | |
| Date logging function | Event history, alarm history, calibration history, Alarm trend (60 sec. before / after 1st alarm) | | | | |

Diffusion Sensor / Transmitter for Toxic Gases

Wide Range of Toxics

GD-K88Ai



- Diffusion Style head
- Digital readout of gas name and concentration
- External control buttons for easy maintenance
- Intrinsically safe design
- Quick response sensors
- Many toxic sensors available
- 3 to 5 year typical sensor life
- Low cost of ownership
- Weather proof enclosure available



Weather Proof housing for GD-K88-4X

| Partial List Of Detectable Gases. Contact RKI for gases or ranges not listed | | | | | |
|--|--------------|-------------------------------------|---------------|-------------------------------------|--------------|
| Ammonia (NH ₃) | 0 - 75.0 ppm | Fluorine (F ₂) | 0 - 6.0 ppm | Nitrogen Dioxide (NO ₂) | 0 - 15.0 ppm |
| Arsine (AsH ₃) | 0 - 0.20 ppm | Hydrogen Chloride (HCl) | 0 - 15.0 ppm | Ozone (O ₃) | 0 - 1.0 ppm |
| Bromine (Br ₂) | 0 - 1.00 ppm | Hydrogen Cyanide (HCN) | 0 - 30 ppm | Phosphine (PH ₃) | 0 - 1.0 ppm |
| Chlorine (Cl ₂) | 0 - 3.0 ppm | Hydrogen Fluoride (HF) | 0 - 9.0 ppm | Silane (SiH ₄) | 0 - 15.0 ppm |
| Chlorine Dioxide (ClO ₂) | 0 - 1.00 ppm | Hydrogen Sulfide (H ₂ S) | 0 - 30.0 ppm | Sulfur Dioxide (SO ₂) | 0 - 6 ppm |
| Carbon Monoxide (CO) | 0 - 150 ppm | Hydrogen Sulfide (H ₂ S) | 0 - 1.00 ppm | Optional | 0 - 30 ppm |
| Diborane (B ₂ H ₆) | 0 - 0.30 ppm | Nitric Oxide (NO) | 0 - 100.0 ppm | | |

O₂, CO

Indoor Stand Alone

OX-600 / EC 600

The OX-600 and EC-600 models are indoor, standalone monitors that detect Oxygen (O₂) and Carbon Monoxide (CO) respectively. It's sleek, low-profile design is equipped with a unique tri-color display, which changes color as each alarm level is reached.

Each model has 2 preset alarms, and comes ready to operate with a simple wall mount bracket and 10 foot power cord (AC units). It is capable of operating with three different power options; 115 VAC, 24 VDC or alkaline batteries.

The sensor can also be mounted with an optional remote sensor cable. Extender cable with remote box available in different lengths (3, 5, 10, or 20 meters).

| | OX-600 | EC-600 |
|-----------------|-------------|----------------------------|
| Detection Range | 0 - 25 vol% | 0 - 150 ppm (1ppm / digit) |

FEATURES

- Operates with or without a controller
- Tri-color visual alarm display: Green=Normal, Yellow=Alarm 1, Red=Alarm 2
- Large easy to read digital display
- Three power options: 115 VAC, 24 VDC, or 2 AA alkaline
- Operates up to 1 year on one set of AA alkaline batteries
- Pressure compensation eliminates false alarms caused by pressure change
- Remote mount sensor cable available



H₂

H₂ Specific Sensor / Transmitter

H₂ Specific

Gas monitoring that is specific to hydrogen without any false alarms is now available from RKI Instruments. A low range version is available which is highly sensitive with a range of 0-2,000 ppm. This is 20 times more sensitive than standard LEL detectors. The technology is based on a proprietary hydrogen specific solid state sensor. The second hydrogen specific sensor is for LEL range. A molecular sieve filter is used to make the sensors respond only to hydrogen molecules. False alarms from interfering gases are eliminated. Ideal for semiconductor fab monitoring and fuel cell applications. Production interruptions are minimized by eliminating false alarms from isopropyl alcohol (IPA) or other compounds. LEL is available with Direct Connect, S2 and M2A, 0-2000 ppm available in S2 Series.

IPA historically has caused problems with conventional hydrogen sensors when they mistakenly indicate the presence of hydrogen.

FEATURES

- Explosion proof housing
- H₂ specific solid state sensor (0-2000 PPM)
- Catalytic H₂ specific sensor (0-100 % LEL)
- Eliminates false alarms from IPA and other compounds
- Molecular sieve filter
- 4-20 mA transmitter, 24VDC, or direct connect
- Poison resistant
- Optional stainless steel enclosure



Sample Draw Sensor / Transmitter**35-3001**

The 35-3001 series is a compact sample draw detector assembly with a built-in pump that accepts a 24VDC input. This unit features a NEMA 4X enclosure making it dust, water and corrosion resistant. It also features a flowmeter with adjustable flow and a low flow alarm which warns of any obstructions or restrictions in the flow system. The 35-3001 is also available in some dual sensor configurations.

The 35-3001 is capable of single person calibrations and remote sampling at up to 5,000 ft. from a controller, and interfacing to any RKI or third party control system (utilizing a 4-20 mA feedback signal).

FEATURES

- NEMA 4X enclosure
- Long life pump
- Low flow indication
- Flowmeter and LED's for operational status
- Operates on 24VDC input
- Multi gas versions available with sensors in one enclosure

*High Range H₂S,
CH₄ Vol, O₂, CO₂***Digester Process Gas Monitoring****Digester Gas Monitor**

Gas from waste digesters contains high levels of methane, CO₂, and H₂S, with little to no oxygen present. The Digester gas monitor checks for all these gases on a cyclic basis. A powerful air aspirator draws a sample from up to 100 feet away. Since digester gas contains high humidity and high H₂S, both of which can cause damage to sampling systems, the RKI Digester Gas Monitor is designed to handle these with no damage to the sampling system or sensors. The sample is passed through a series of particles, dust, and moisture stopping filters, and these filters are automatically purged with fresh air at the end of each cycle.

FEATURES

- Corrosion resistant design
 - Housing designed for extreme environments
 - Internal construction for extreme samples
 - Flow system designed to handle corrosive wet samples
- Sample system designed to handle high humidity
- Accurately measures gases with high levels of H₂S present
- 100 ft. sample range
- Up to 4 sensors:
 - CH₄ 0-100% volume
 - CO₂ 0-50% volume
 - O₂ 0-25% volume
 - H₂S 0-1000 PPM (0-3000 or 0-5000 optional)
- Suitable for indoor / outdoor installations
- NEMA 4X enclosure

Harsh Environment Aspirator Panel*H₂S, CO, O₂, CO₂, H₂, LEL***Aspirator Panel**

Single or dual sensor system is designed to monitor gas atmospheres from extreme conditions with either temperature or pressure challenges. A powerful air aspirator can pull a sample from up to 100 feet away. The filtered and conditioned sample gas is then passed across one or two different detectors. Each detector shares a common calibration and compressed air inlet for aspirated flow. This system is fault tolerant removing the need for expensive downtimes and maintenance. The sample is diluted with air after the gas sensor then returned to a common exhaust reducing the danger of potential hazardous gases entering a safe work space.

System integrity is maintained at all times using a flow fail monitoring device which provides a normally open contact that activates if the sample line becomes blocked or damaged or if the air supply is removed or interrupted.

FEATURES

- Long life air aspirator (no moving parts)
- Extreme sample temperatures
- indoor / outdoor location options
- Corrosion resistant construction for extreme environments / samples
- Uses proven RKI technology
- Modular design easy to maintain
- Self draining moisture trap
- Back flush for sample line
- NEMA 4X enclosure options

CH₄, HC, O₂, H₂S, CO,
CO₂, NH₃, SO₂

Explosion Proof Multi Sensor Head

Waste Water Gas Monitoring

This unique tri-sensor head can be used either indoors or outdoors. The flame arrestors for the explosion-proof versions utilize a patented coating which make them water repellent. Also, splash guards are available for use in very wet environments. The tri and quad sensor head is designed to specifically interface with the RKI Beacon 410A controller.

The direct connect series sensors are available for LEL (IR or catalytic), toxics, O₂, H₂S, CO, or CO₂. All sensors are explosion-proof with flame arrestors, and suitable for use in hazardous locations. The enclosure is corrosion resistant NEMA 4X stainless steel.

Recommended for water and wastewater applications including wet wells, dry wells, bar screens, lift stations, digesters, thickeners, pump stations, and confined spaces.

FEATURES

- 2-4 Sensors, 1 explosion proof housing
- Infrared sensors available for combustible or CO₂
- Interfaces with Beacon 410A controller
- Available for combinations of LEL (CH₄ or HC), O₂, CO, H₂S, CO₂, and toxics
- Water repellent patented sensor coating
- Long life sensors (2 + years typical)
- CSA approved NEMA 4X stainless steel enclosure



Semiconductor Gases

FP-300, 301, and 330



RKI's paper tape monitors utilize highly sensitive colorimetric tapes to achieve interference free detection at low PPB and PPM levels of a wide variety of gases. Each model is equipped with easily replaceable tapes that are specific to the gas being monitored. Each model has a digital display showing the type of gas and concentration in either PPM or PPB, and also displays remaining tape time as well as an end of tape alarm.

FEATURES

- PPB detection for many gases
- PPB or PPM digital display
- Easily transportable
- 115 VAC powered

Paper Tape Toxic Gas Detector

| Gas Name | Gas Formula | Range | FP-300 | FP-330 | FP-301 |
|------------------------|-------------------------------|------------|--------|--------|--------|
| Ammonia | NH ₃ | 0 - 4ppm | • | | |
| Arsine | AsH ₃ | 0 - 150ppb | • | | • |
| | | 0 - 15ppb | | | |
| Boron Trifluoride | BF ₃ | 0 - 3ppm | • | | |
| Chlorine | Cl ₂ | 0 - 1.5ppm | • | | |
| | | 0 - 0.8ppm | | | |
| Diborane | B ₂ H ₆ | 0 - 300ppb | • | | |
| Hydrogen Bromide | HBr | 0 - 2ppm | • | | |
| Hydrogen Chloride | HCl | 0 - 1ppm | • | | |
| | | 0 - 8ppm | | | |
| Hydrogen Fluoride | HF | 0 - 3ppm | • | | |
| Hydrogen Selenide | H ₂ Se | 0 - 200ppb | | | • |
| Hydrogen Sulfide | H ₂ S | 0 - 100ppb | • | | |
| | | 0 - 10ppm | | | |
| Octafluorocyclopentene | C ₅ F ₈ | 0 - 5ppm | • | | |
| Perfluorobutadiene | C ₄ F ₆ | 0 - 5ppm | • | | |
| Phosgene | COCl ₂ | 0 - 300ppb | • | | |
| Phosphine | PH ₃ | 0 - 500ppb | • | | |
| | | 0 - 900ppb | | | |
| Silane | SiH ₄ | 0 - 15ppm | • | | |
| Formaldehyde | HCHO | 0 - 0.5ppm | | | |
| | | 0 - 1ppm | | • | |
| | | 0 - 5ppm | | | |

Single Point Stand Alone Monitor

PS 2

A perfect solution for hydrogen detection in battery rooms, methane detection in basements, or in buildings near landfills. The PS 2 also detects a variety of solvent vapors in general industry and is a multipurpose gas monitor utilizing a metal oxide sensor (MOS) for long lasting and low maintenance detection at low LEL level of many gases or vapors. The PS 2 has two alarm levels for increasing gas or vapor levels. This stand alone unit is housed in a durable plastic enclosure with flanges provided for wall mounting and is designed with easy access wiring hubs on the bottom of the unit. The front of the PS 2 contains three lights; Pilot, Alarm 1, and Alarm 2. An internal audible alarm (85 db) signals a gas alarm condition. The sensor is provided on the end of a 30' extension cable as standard and the 115 VAC version is equipped with a power cord, for easy installation.

FEATURES

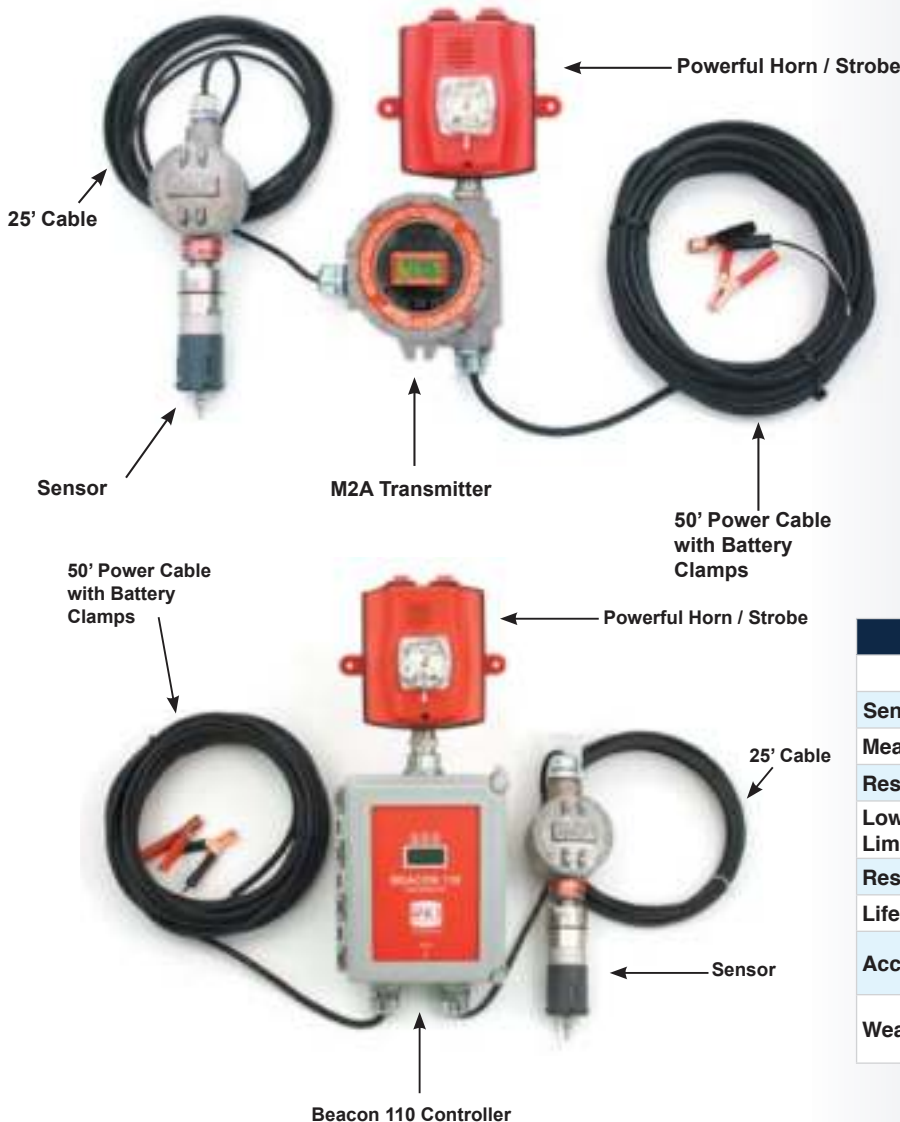
- LEL detection ranges available for many gases
- 2 alarm levels (typically 10% LEL and 30% LEL)
- Stand alone system
- Input voltages: 115 VAC standard, 24 VDC or 48 VDC (optional)
- Audible and visual alarms
- Compact design
- Simple installation
- AC version equipped with power cord
- Relay contacts rated 12A @ 115 VAC
- Low maintenance



LEL / H2S Detection for Drill Rigs

LEL or H2S

Rig Monitor







Rig monitors are specifically designed for detection of LEL / H2S around drilling rigs. All units include our long-life plug in electrochemical H2S sensor, range 0 - 100 ppm or our catalytic sensor range 0 - 100% LEL. All cable connections are protected by rugged strain relief cord grips, and sensors are mounted in an explosion proof enclosure that includes a convenient mounting bracket. Also included is a powerful horn / strobe mounted directly to the M2A or Beacon controller. The unit is powered by 12 VDC and comes with battery clamps on a 50' Cable.

FEATURES

- Pre-wired for easy installation
- 12 VDC powered with battery clamps
- Sensors wired on 25' cables
- Powerful horn / strobe
- Ideal for use at oil and gas drilling sites
- LEL versions available
- 2-4 channel versions available

| Sensor Specification | | |
|------------------------------|---|-----------|
| | H2S | LEL |
| Sensor | Electrochemical | Catalytic |
| Measuring Ranges | 0 - 100 ppm H2S | 100% LEL. |
| Resolution | 1 ppm | 1 LEL |
| Lower Detectable Limit (LDL) | 2% of full scale | |
| Response Time (T-90) | 35 Seconds or less | |
| Life Expectancy | 2 to 3 years with normal service | |
| Accuracy | ± 5% of reading or ± 2 ppm H2S, ± 2% LEL (whichever is greater) | |
| Weather Resistant | Patented water repellent sensor coating | |

| | Diffusion Instruments | Sample Draw Instruments |
|----------------------------|---|---|
| Small Kit | <p>Fixed flow regulators 2 Cylinder Case</p>  <p>34AL 34L Tubing GX-2009 Cal Cup 81-1117RK Cal Cup</p> | <p>Demand flow regulators 2 Cylinder Case</p>  <p>34AL 34L Tubing</p> |
| | <p>Fixed flow regulator 3 cylinder case 2 cylinder case</p>  <p>58AL 103L Tubing GX-2009 Cal Cup 81-1117RK Cal Cup</p> | <p>Demand flow regulator 3 cylinder case 2 cylinder case</p>  <p>58AL 103L Tubing</p> |
| Portable Models | GX-2009, 03 Series, SC-01 | GX-6000, GX-2012, Gas Tracer, Eagle 2, Eagle, RX-8000, RX-516, RX-517 |
| Fixed System Models | Direct Connect Sensors, S2, M2A, GD-A80/GD-A80V, GD-K88Ai, PS2, M Series, OX-600, CO-600 | GD-70D, 35-3001 Series |

Detectable Gases

| Measurable Gases | Symbol | TLV/TWA | Range | Diffusion Detector | Sample Draw | Portable |
|---------------------------|---|-----------------------|--------------------|--|-------------------------------|--|
| Acetic Acid | CH ₃ COOH | 1.5 PPM | 30 PPM | – | GD-70D | – |
| Ammonia | NH ₃ | 25 PPM | 75 PPM/400 PPM | GD-K88AI-NH ₃ / DC / S ₂ / M2A | GD-70D | GX-6000 / EAGLE / EAGLE 2 / SC-01 / SP-220 |
| Ammonia | NH ₃ | 25 PPM | 1 PPM / 4 PPM | – | FP-311 / FP-310 | – |
| Arsine | AsH ₃ | 0.05 PPM | 0.2 / 1.5 PPM | DC / S ₂ / M2A / GD-K88AI-ASH ₃ | GD-70D | EAGLE / EAGLE 2 / SC-01 / SP-220 |
| Benzene | C ₆ H ₆ | 0.5 PPM | various PPM | GD-A80V | GD-70D | EAGLE / EAGLE 2 / GX-6000 |
| Boron Trichloride | BCl ₃ | HCl C 5 PPM | 15 PPM | GD-K88AI-BCl ₃ | GD-70D | EAGLE |
| Boron Trifluoride | BF ₃ | HF C 3 PPM | 9 PPM | – | GD-70D | EAGLE |
| Bromine | Br ₂ | 0.1 PPM | 1 PPM | GD-K88AI-BR ₂ | GD-70D | EAGLE |
| Butane | C ₄ H ₁₀ | LEL=1.9% | 100% LEL | DC / S ₂ / M2A / GD-A80 / PS ₂ | 35-3001 / GD-D58 / GD-70D | GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / RX-8000 |
| Carbon Dioxide | CO ₂ | 5,000 PPM | 2,000 PPM | RI-215A | RI-215D | – |
| Carbon Dioxide | CO ₂ | 5,000 PPM | 5,000 PPM | RI-215A / DC / S ₂ / M2A | RI-215D, 35-3001 | EAGLE / EAGLE 2 |
| Carbon Dioxide | CO ₂ | 5,000 PPM | 10,000 PPM | RI-215A | RI-215D | EAGLE / EAGLE 2 / GX-6000 |
| Carbon Dioxide | CO ₂ | 5,000 PPM | 5%,20,50,60,100% | DC / S ₂ / M2A | 35-3001 | EAGLE / EAGLE 2 / GX-6000 |
| Carbon Monoxide | CO | 25 PPM | 30 / 75 / 150 PPM | GD-K88AI-CO | GD-70D | SC-01 / SP-220 |
| Carbon Monoxide | CO | 25 PPM | 300 / 500 PPM | EC-600 / DC / S ₂ / M2A / M Series | 35-3001-CO | CO-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 |
| Chlorine | Cl ₂ | 0.5 PPM | 3 PPM / 10 PPM | GD-K88AI-CL ₂ / DC / S ₂ / M2A | GD-70D | EAGLE / EAGLE 2 / GX-6000 / SC-01 |
| Chlorine Trifluoride | ClF ₃ | 0.1 PPM | 0.6 PPM | – | GD-70D | EAGLE |
| Combustibles LEL | LEL | – | 100% LEL | DC / S ₂ / M2A / GD-A80 / PS ₂ | 35-3001 / GD-D58 / GD-70D | GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 |
| Combustibles PPM | PPM | – | various PPM | GD-A80V | GD-70D, GD-D58V | EAGLE / EAGLE 2 |
| Diborane | B ₂ H ₆ | 0.1 PPM | 0.3 PPM | GD-K88AI-B ₂ H ₆ | GD-70D | EAGLE / SP-220 |
| Dichlorosilane | DCS | HCl 5 PPM | 15 PPM | GD-K88AI-DCS | GD-70D | EAGLE |
| Disilane | Si ₂ H ₆ | 5 PPM | 15 PPM | GD-K88AI-Si ₂ H ₆ | GD-70D | EAGLE |
| Fluorine | F ₂ | 1 PPM | 3 PPM | – | GD-70D | EAGLE |
| Formaldehyde | HCHO | C 0.3 PPM | 1 / 500 PPM | – | FP-330 | FP-31 / SP-220 |
| Germane | GeH ₄ | 0.2 PPM | 0.2 / 0.8 PPM | – | GD-70D | SP-220 |
| Halocarbons | HCFC | Various | 0 - 5,000 (typ) | – | RI-257, GD-70D | – |
| Hexane | C ₆ H ₁₄ | – | 2,000 PPM | GD-A80V | GD-70D, GD-D58V | EAGLE / EAGLE 2 / GX-6000 |
| Hexane | C ₆ H ₁₄ | LEL = 1.1% | 100% LEL | S ₂ / GD-A80 / DC / M2A / PS ₂ | 35-3001 / GD-D58 | GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 |
| Hydrazine | N ₂ H ₄ | 0.1 PPM | 4 PPM | – | FP-310 | – |
| Hydrocarbon LEL | LEL | – | 100% LEL | M2A / S ₂ / GD-A80 / DC / PS ₂ | 35-3001-LEL / GD-D58 / GD-70D | GP-03 / EAGLE / EAGLE 2 / GX-6000 / RX-8000 / GX-2012 / Gas Tracer / GX-2009 |
| Hydrocarbon PPM | PPM | – | various PPM | GD-A80V | GD-70D / GD-D58V | EAGLE / EAGLE 2 / GX-6000 |
| Hydrogen LEL | H ₂ | LEL = 4% | 100% LEL | DC / S ₂ / M2A / GD-A80 / H ₂ Specific / PS ₂ | GD-70D / GD-D58 | GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 Gas Tracer / GX-2009 |
| Hydrogen PPM | H ₂ | – | 10 / 2,000 PPM | H ₂ Specific / GD-A88V-H ₂ /S ₂ | GD-70D / GD-D58V | EAGLE / EAGLE 2 / SP-220 |
| Hydrogen Bromide | HBr | C 3 PPM | 9 / 10 PPM | GD-K88AI-HBR | GD-70D | EAGLE / SP-220 |
| Hydrogen Chloride | HCl | C 5 PPM | 10 / 15 PPM | GD-K88AI-HCL | GD-70D | EAGLE / SP-220 |
| Hydrogen Cyanide | HCN | STEL C 4.7 PPM | 15 / 30 PPM | DC / S ₂ / M2A / GD-K88AI-HCN | GD-70D | EAGLE / EAGLE 2 (0-15 ppm) / GX-6000 |
| Hydrogen Fluoride | HF | C 3 PPM | 9 PPM | – | GD-70D | EAGLE |
| Hydrogen Iodide | HI | – | 5 PPM | – | GD-70D | EAGLE |
| Hydrogen Sulfide | H ₂ S | 0.1 / 1 PPM | 1 / 30 PPM | GD-K88AI-H ₂ S | GD-70D | EAGLE / SC-01 |
| Hydrogen Sulfide | H ₂ S | 1 PPM | 100 PPM | DC / S ₂ / M2A / M-Series | 35-3001-H ₂ S | HS-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / GX-2009 |
| Iodine | I ₂ | STEL C 0.1 PPM | 1 PPM | – | GD-70D | EAGLE |
| Isobutane | C ₄ H ₁₀ | LEL = 1.8% | 100% LEL | DC / S ₂ / M2A / GD-A80 / PS ₂ | 35-3001 / GD-D58 / GD-70D | GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / RX-8000 |
| Isopropyl Alcohol (IPA) | CH ₃ CHOHCH ₃ | 400 PPM | 10 / 2,000 PPM | GD-A80V | GD-70D / GD-D58V | EAGLE / EAGLE 2 / GX-6000 / SP-220 |
| Methane | CH ₄ | LEL = 5% | 100% LEL | DC / S ₂ / M2A / GD-A80 / PS ₂ | GD-70D / GD-D58 | GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / RX-8000 |
| Nitric Acid | HNO ₃ | 2 PPM | 20 PPM | – | GD-70D | EAGLE |
| Nitric Oxide | NO | 25 PPM | 100 PPM | GD-K88AI-NO | GD-70D | EAGLE |
| Nitrogen Dioxide | NO ₂ | 3 PPM | 9 PPM / 15 PPM | GD-K88AI-NO ₂ | GD-70D | EAGLE / GX-6000 |
| Nitrogen Tetraoxide | N ₂ O ₄ | NO ₂ 3 PPM | 15 PPM | – | GD-70D | EAGLE |
| Nitrogen Trifluoride | NF ₃ | 10 PPM | 30 PPM | – | GD-70D | – |
| Octafluorocyclopentene | C ₅ F ₈ | – | 5 PPM | – | FP-300AGZS | – |
| Oxygen | O ₂ | – | 25% / 40% | OX-600 / DC / S ₂ / M2A | 35-3001-OXY / GD-70D | OX-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / RX-8000 |
| Ozone | O ₃ | 0.1 PPM | 0.6 PPM | GD-K88AI-O ₃ | GD-70D | EAGLE |
| Pentane | C ₅ H ₁₂ | LEL = 1.5% | 100% LEL | DC / S ₂ / M2A / GD-A80 / PS ₂ | 35-3001 / GD-D58 | GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 |
| Perfluorobutadiene | C ₄ F ₆ | – | 5 PPM | – | FP-300AGZS | – |
| Phosphine | PH ₃ | 0.3 PPM | 1 / 2 PPM | GD-K88AI-PH ₃ / DC / S ₂ / M2A | GD-70D | EAGLE / EAGLE 2 / SC-01 / SP-220 |
| Propane | C ₃ H ₈ | LEL = 2.1% | 10 PPM / 100% LEL | DC / S ₂ / M2A / GD-A80 / PS ₂ | 35-3001 / GD-D58 / GD-70D | GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / SP-220 |
| Silane | SiH ₄ | 5 PPM | 0.5 / 15 PPM | GD-K88AI-SiH ₄ | GD-70D | EAGLE / SP-220 |
| Silicon Tetrachloride | SiCl ₄ | HCl C 5 PPM | 15 PPM | GD-K88AI-SiCl ₄ | GD-70D | EAGLE |
| Silicon Tetrafluoride | SiF ₄ | HF C 3 PPM | 9 PPM | – | GD-70D | EAGLE |
| Sulfur Dioxide | SO ₂ | .25 PPM | 1/6/10/15/30 PPM | DC / S ₂ / M2A / GD-K88AI-SO ₂ | GD-70D | EAGLE / EAGLE 2 / GX-6000 / SC-01 / SP-220 |
| Sulfur Tetrafluoride | SF ₄ | HF C 3 PPM | 9 PPM | – | GD-70D | EAGLE |
| Tetraethyl Orthosilicate | TEOS | 10 PPM | 15 PPM | – | GD-70D | – |
| Trichlorosilane | TCS | HCl C 5 PPM | 15 PPM | – | GD-70D | EAGLE |
| Trimethoxy Phosphate | TMP | 2 PPM | 15 PPM | – | GD-70D | – |
| Trimethoxyboron | TMB | – | 500 PPM | – | GD-70D | – |
| Toluene | C ₆ H ₅ CH ₃ | 20 PPM | various PPM | GD-A80V | GD-70D / GD-D58V | EAGLE / EAGLE 2 / GX-6000 |
| Tungsten Hexafluoride | WF ₆ | HF C 3 PPM | 9 PPM | – | GD-70D | EAGLE |
| 1,1,1-Trichloroethane | C ₂ H ₃ Cl ₃ | 350 PPM | 0 - 2,000 PPM | GD-A80V | GD-D58V | – |
| Volatile Organic Compound | VOCs | – | 0-50 / 50-6000 PPM | – | – | EAGLE 2 / GX-6000 |

*Other gases and ranges also available. Please call RKI Instruments at (800) 754-5165. DC = Direct Connect Sensors.

Portable Solutions

Single Gas



GP-03 OX-03 HS-03 CO-03

Multi Gas



GX-2009 GX-2012 GX-6000 Eagle 2 Eagle

Fixed Solutions

Controllers



Beacon 110 Beacon 200 Beacon 410A Beacon 800

Detector Heads



Direct Connect S2 M2A GD-70D EC-600 OX-600

Who Is RKI Instruments?

A world leader in gas detection and sensor technology for over 75 years.

At The Heart Of Every Gas Detector Is The Sensor

We don't just buy our sensors, we design, build, age, and test them. For over 75 years we have been at the forefront of sensor technology developing advanced detection techniques to provide solutions for specific applications. As a result we provide reliable, rugged gas detection equipment.

Product Development

Through ingenuity and years of industry experience, we have developed a unique line of gas detection instruments and accessories. As an example, the GX-6000 is a unique instrument with 6 operating modes, 6 gas channels including 2 smart sensor slots for PID, IR and EC smart plug and play sensors.

Training



Repair



Field Service



Support

The average RKI employee has over 12 years of gas detection experience. When you call RKI for support you will speak to a person with an expertise in gas detection equipment. RKI also provides support through a network of authorized safety equipment distributors, technical sales representatives, and service centers.

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