

# Product Catalog



**Gas Detection For Life**



INSTRUMENTS

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 70 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 14 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,

Bob Pellissier  
President



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World Leader In Gas Detection & Sensor Technology  
[www.rkiinstruments.com](http://www.rkiinstruments.com)



## GX-2009

## Smallest Four Gas Personal Monitor

RKI is proud to offer the smallest and lightest 4-gas monitor in the world, the GX-2009. 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. The GX-2009 represents the latest evolution of gas detection technology. Advancements include dual audible alarm ports and alarm LEDs on 3 sides of the instrument, so that alarm conditions are obvious from multiple perspectives, especially in high noise environments. Other features include a waterproof and dustproof design with an IP-67 rating, an impact resistant rubber over-mold body, and a large capacity data logging system included as a standard feature.



### FEATURES

- Simultaneous detection of LEL, O<sub>2</sub>, H<sub>2</sub>S, and CO
- Smallest 4 gas monitor on the market  
2.7" H x 3" W x 1" D, 4.6 oz.
- Dual audible alarm ports (95 db @ 30 cm)
- 3 Visual alarm LED's
- Vibration alarm
- IP-67 Waterproof / dustproof design
- Calibration / bump test lock out or reminder control
- Large capacity datalogging:
  - 8 Alarm trends
  - Log time range of 10 to 300 hrs
  - 100 Calibration records
- 20 Hrs of operation (NiMH batt.)
- Large LCD display screen
- Impact resistant over-mold body
- STEL and TWA readouts
- Automatic backlighting at alarm
- Intrinsically safe, IECEx and CSA, C/US certified
- 2 Year warranty

## GX-2012

## Gas Tracer

### Confined Space Multi Gas Monitor

### Confined Space / Leak Detector



Normal Operating Mode



Bar Hole Mode



Normal Operating Mode



Leak Check Mode



Bar Hole Mode

### GX-2012

Monitors LEL and % Vol. methane, O<sub>2</sub>, CO and H<sub>2</sub>S

### FEATURES

- Auto-ranging display of % LEL and % volume
- Barhole test mode with TC sensor
- Bump test reminder option
- Snap-logging - on demand data recording
- Datalogging standard
  - Snap shot logging
  - Bar hole logging
  - Calibration and bump test
- Status indicators:
  - Pump active, microprocessor status and battery level
- Internal sample drawing pump with up to 50 foot range
- "Leak tracker" audible/visual alarm mode for CH<sub>4</sub>
- Vibration, visual, and audible alarms
- Lithium ion or alkaline power source (interchangeable)
- Intrinsically safe, ATEX / IECEx / CE, C CSA US (pending)
- 2 year warranty



Li-ion Battery Pack



SDM-2012 Calibration Station



Alkaline Battery Pack

### Gas Tracer

Monitors ppm, LEL, and % Vol. methane, O<sub>2</sub> and CO

ppm leak detector, detects down to 10 ppm CH<sub>4</sub>

"Leak tracker" audible/visual alarm model

### FEATURES

- Auto-ranging display of % LEL and % volume
- Barhole test mode with TC sensor
- Bump test reminder option
- Snap-logging - on demand data recording
- Datalogging standard
  - Snap shot logging
  - Bar hole logging
  - Calibration and bump test
- Status indicators:
  - Pump active, microprocessor status and battery level
- Internal sample drawing pump with up to 50 foot range
- Pump pause on demand extends battery life
- Vibration, visual, and audible alarms
- Lithium ion or alkaline power source (interchangeable)
- Intrinsically safe, ATEX / IECEx / CE, C CSA US (pending)
- 2 year warranty



# 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 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> (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
- Transfer testing

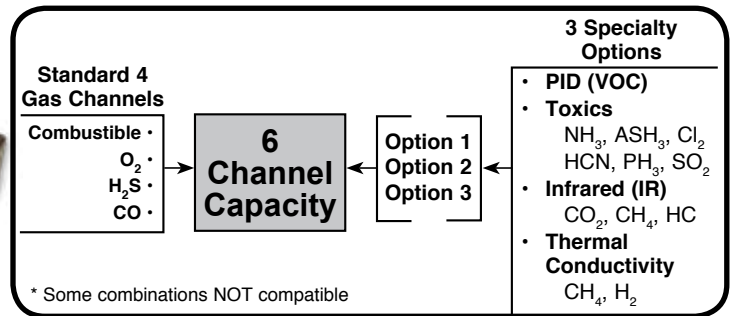
### FEATURES

- Monitor up to 6 different gases
- Specialty Sensors
  - PID (Photoionization Detector) low or high range for VOC gases
  - Infrared (IR) CO<sub>2</sub>, % LEL CH<sub>4</sub>, % Vol. CH<sub>4</sub>, % LEL HC, % Vol. HC
  - Thermal Conductivity (TC) % Vol. H<sub>2</sub>, % Vol. CH<sub>4</sub>
  - Smart toxic, plug and play sensors NH<sub>3</sub>, AsH<sub>3</sub>, Cl<sub>2</sub>, HCN, PH<sub>3</sub>, & SO<sub>2</sub>
- PPM, % LEL, or % Vol. auto-ranging combustible detection
- 3 Operating modes:
  - Normal
  - Leak check
  - Bar hole sampling
- 3 Display modes:
  - All gases
  - Single gas auto-scroll
  - Single gas manual-scroll
- Powerful long-life pump up to 125' range
- Low flow pump shut off and alarm
- Alkaline 18 hours or NiMH 20 hours
- Datalogging standard
- Multilingual (5 languages)
- Methane elimination for environmental use
- Meets EPA Method 21 protocol for fugitive emissions testing (most applications)
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, CSA approval

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



SDM-E2 Calibration Station



# 6 Gas (Wide Range of Super Toxics)

# EAGLE

- Monitor up to 6 gases
- Electrochemical, catalytic, and infrared sensor technologies
- Wide range of field proven sensors
- Extensive list of toxic gases
- IR sensors available for CO<sub>2</sub>, % LEL, HC or CH<sub>4</sub>, 0-100% Vol. CH<sub>4</sub>, 0-30% Vol. HC
- PPM/LEL hydrocarbon detection
- Low flow pump and 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
- Datalogging option (for up to 4 gases)
- Will operate in up to 2" of water
- Intrinsically safe, CSA, C/US & UL Classified
- Methane elimination switch for environmental use
- Meets EPA Method 21 protocol for fugitive emissions testing (most applications)



Super Toxics and Other Gases (additional Toxic gases available)	
Ammonia (NH <sub>3</sub> )	0 - 75 ppm
Arsine (AsH <sub>3</sub> )	0 - 1 ppm 0 - 200 ppb
Carbon Dioxide (CO <sub>2</sub> ) (I R Sensor)	0 - 5,000 ppm 0 - 10,000 ppm 0 - 5% Vol. 0 - 20% Vol. 0 - 60% Vol.
Chlorine (Cl <sub>2</sub> )	0 - 3 ppm
Chlorine Dioxide (ClO <sub>2</sub> )	0 - 1 ppm
Fluorine (F <sub>2</sub> )	0 - 5 ppm
Hydrogen Fluoride (HF)	0 - 9 ppm
Hydrogen Chloride (HCl)	0 - 15 ppm
Hydrogen Cyanide (HCN)	0 - 30 ppm
Hydrogen Sulfide (H <sub>2</sub> S)	0 - 1 ppm 0 - 30 ppm

Super Toxics and Other Gases (additional Toxic gases available)	
Methane (CH <sub>4</sub> ) (IR Sensor)	0 - 100% LEL 0 - 100% Vol.
Isobutane (C <sub>4</sub> H <sub>10</sub> ) (IR Sensor)	0 - 100% LEL 0 - 30% Vol.
Nitrogen Dioxide (NO <sub>2</sub> )	0 - 15 ppm
Nitric Oxide (NO)	0 - 100 ppm
Phosphine (PH <sub>3</sub> )	0 - 1 ppm
Silane (SiH <sub>4</sub> )	0 - 15 ppm
Sulfur Dioxide (SO <sub>2</sub> )	0 - 6 ppm
Standard Confined Space Gases	
Hydrocarbons (CH <sub>4</sub> , std)	0 - 100% LEL 0 - 50,000 ppm
Oxygen (O <sub>2</sub> )	0 - 40% Vol.
Carbon Monoxide (CO)	0 - 500 ppm
Hydrogen Sulfide (H <sub>2</sub> S)	0 - 100 ppm



## 01 Series

## Single Gas Clip-On Personal Series

Individuals need personal protection in hazardous areas at all times without adding extra bulky equipment, and the 01 Series can provide that kind of protection at an affordable price. The GP-01, OX-01, CO-01, and HS-01 models are single gas monitors designed for personal protection from combustible hydrocarbons, oxygen deficiency, hydrogen sulfide, or carbon monoxide. Each model is controlled by a microprocessor for reliability and advanced capabilities. Each model can be operated continuously for at least 3,000 hours on (2) AAA size alkaline batteries except the GP-01, which operates for 16 hours. The 01 models have 2 preset alarms that are user adjustable and each version is also equipped with visual, audible, and vibration alarms as standard. The replacement sensors are inexpensive, easily field replaceable, have a life expectancy of 2 years, and are interchangeable with other RKI monitors such as the GX-2001, GX-2003, and GasWatch 2 models.

### FEATURES

- 4 Gases to choose from CO, H<sub>2</sub>S, O<sub>2</sub>, or combustibles
- Operates 3,000 hrs. on 2 AAA alkaline batteries (16 hours for GP-01)
- Light weight 3.5 ounces
- Pocket size 1.4"(W) x 4.1"(H) x 0.8"(D)
- Audible, visual, and vibration alarms
- Peak hold
- Low battery alarm
- Optional Ni-Cad battery and charger (GP-01)
- Impact and water resistant
- Intrinsically safe, CSA/C/US approved
- 2 Year warranty



## GasWatch 2

## Single Gas Personal Monitor



Equipped with a watch band, optional belt clip, hard hat clip, or alligator clip, the GasWatch 2 can be worn either on the wrist, belt, hard hat, or clipped to protective wear. The GasWatch 2 is a convenient, inexpensive, hands-free method of gas monitoring for personal protection of oxygen deficiency, carbon monoxide or hydrogen sulfide. The built in vibration, audible, and visual alarms immediately alert the user of a dangerous gas condition.

GasWatch 2 is controlled by a microprocessor for reliability and advanced capabilities and will operate for over 3,000 hours on one battery (about 1 year normal use). And yes, the GasWatch 2 even tells the time!

### FEATURES

- 3 Gases to choose from CO, H<sub>2</sub>S, or O<sub>2</sub>
- Hands free gas monitoring
- Compact "watch type" design
- Fast, accurate response with digital LCD display
- Sensor fail alarm
- Fits on your wrist, clothing, belt or hardhat
- Automatic backlight during alarm
- Peak hold function (min. and max. values for O<sub>2</sub>)
- TWA and STEL function
- Displays current time
- Visual, audible, and vibration alarms standard
- Over 3000 hours of operation from 1 battery
- Intrinsically safe, CSA, C/US approved
- 2 Year warranty



## Accessories



RP-2009



Calibration Kits

### Calibration Stations



Training CD's



Multi Unit Charger



Bar Hole Probe for GX-2012 and Gas Tracer



Carrying Case

## Remote Sample Draw Pump

**RP-2009**



The RP-2009 is a compact, battery operated, motorized sample drawing pump which attaches to the GX-2009 to change it from diffusion operation to sample drawing operation. Together the model RP-2009 pump assembly and the GX-2009 gas monitor make a complete solution for confined space entry.

The RP-2009 is housed in a rugged plastic case with a quick disconnect fitting for hose attachment, and it is provided with a hose and probe. Standard hose length is 10 feet, and lengths up to 30 feet are available. The probe is equipped with an internal dust filter and clear body for easy viewing. The RP-2009 will operate for up to 8 hours on one AA battery. The pump quickly and firmly snaps and locks over the sensor area of the GX-2009 gas monitor. The RP-2009 removes easily when sampling is completed. No tools are required.

### FEATURES

- Attaches to GX-2009 gas monitor in seconds
- Compact size, lightweight
- Strong motorized pump and operated from one AA battery for 8 hours
- Audible and visual alarms for low flow and low battery
- Pilot light to confirm operation
- Hoses available up to 30' length
- Includes probe with visible dust filter
- Rugged and proven RKI reliability

## Portable Formaldehyde Monitor

**FP-30**

The model FP-30 gas detector is compact, light weight instruments for detection of Formaldehyde (HCHO). This highly sensitive unit utilizes a proprietary paper tape technology that was developed for high sensitivity without interferences from other typical gases that may be present. We call this technique "photoelectric photometry using a colorimetric detection tablet". The disposable tablet contains a chemically impregnated paper disc that discolors in the presence of the target gas. The sample draw rate is controlled by the microprocessor and the instrument has a direct digital readout of the gas concentration on an LCD display. Readings are of average formaldehyde exposure over a 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
  - No warm up time
- FP-30 Detection Ranges:**
- 30 Min. Test 0-0.4 PPM (0.005 PPM increment)
  - 15 Min. Test 0-1.0 PPM (0.01 PPM increment)



## Single Toxic Gas Monitor

**SC-01**



Built around RKI's latest smart sensor technology, the SC-01 is RKI's most versatile personal single toxic gas monitor. The sensors are interchangeable and automatically recognized by the instrument. Weighing only 7.6 ounces, it offers sensors for ammonia (NH<sub>3</sub>), arsine (AsH<sub>3</sub>), carbon monoxide (CO), chlorine (Cl<sub>2</sub>), hydrogen sulfide (H<sub>2</sub>S), hydrogen cyanide (HCN), phosphine (PH<sub>3</sub>), and sulfur dioxide (SO<sub>2</sub>). The SC-01's unique extender cable allows the sensor to be attached to the end of a 10 foot cable for remote monitoring and quick response. The SC-01's large LCD display shows all gas readings, battery level, current time, and will automatically backlight in alarm conditions. One set of AA alkaline batteries provides continuous operation for over 250 hours. The SC-01 is equipped with datalogging capability as a standard feature.

### FEATURES

- Smart interchangeable sensors
- Wide range of toxic gases
- Unique extender cable for remote monitoring
- Compact (2.5 x 5.2 x 1.2 in.)
- Lightweight, 7.6 ounces
- 250 hours of continuous operation
- Operates on 2 "AA" alkaline batteries
- Datalogging standard
- Audible, visual, and vibration alarms
- Impact resistant protective rubber boot
- Intrinsically safe, CSA, C/US

**RI-85**

**IR CO<sub>2</sub> Monitor**



The model RI-85 is a compact, light weight portable CO<sub>2</sub> monitor with a non-dispersive infrared (NDIR) method of detection. This infrared type of sensor provides fast and accurate detection of CO<sub>2</sub> levels from 0 to 10,000 PPM or 0-5.00%. An internal sample drawing pump is utilized for continuous sampling, and the unit operates for 12 hours from one set of batteries. Microprocessor controlled, the RI-85 provides average readings over a selected time period and can also display the peak value detected. This unit is ideal for indoor air quality CO<sub>2</sub> breathing levels in plants or factories and leak checking for CO<sub>2</sub> fire extinguishing equipment. It also provides a reassuring check after the use of a CO<sub>2</sub> fire extinguisher.

**FEATURES**

- Compact (3.5"W x 7.8"H x 1.6"D)
- Light weight (18 oz.)
- Digital LCD readout with backlighting
- Microprocessor controlled
- Peak and average values
- Low battery alarm
- Recorder output signal (0-1 volt linear)
- Internal sample drawing pump
- Ideal for indoor air quality CO<sub>2</sub> detection
- Audible & visual alarm

**LNG & Oil Tanker Gas Monitors**

**Single Gas IR**

The RI-415 Series is a portable hydrocarbon (HC) or methane (CH<sub>4</sub>) detector with an Infrared (NDIR) type sensor. With an internal sample drawing pump and an infrared sensor, the RI-415 accurately measures either HC or CH<sub>4</sub> gas levels even in an inert environment. The measuring ranges are 0-100% Vol. and 0-100% LEL with automatic ranging.

**Hydrocarbon Monitor**

**FEATURES**

- Accurately monitor inert locations for CH<sub>4</sub> / HC
- Measure % Volume or % LEL
- Explosion proof / Intrinsically safe design
- NDIR detection
- Internal sample drawing pump
- Digital readout
- Self illuminated display



**RI-415**

**Two Gas IR**

The RX-415 Series is a portable hydrocarbon (HC) or methane (CH<sub>4</sub>) detector with an Infrared (NDIR) type sensor which can also monitor for oxygen (O<sub>2</sub>) levels. With an internal sample drawing pump and an infrared sensor, the RX-415 accurately measures either HC or CH<sub>4</sub> gas levels even in an inert environment. The measuring ranges for hydrocarbons and methane are 0-100% Vol. and 0-100% LEL with automatic ranging. Range for oxygen is 0-40.0 %Vol.

**HC / O<sub>2</sub> Monitor**

**FEATURES**

- Dual range detection of % Vol. and % LEL for CH<sub>4</sub> or HC
- Simultaneously monitor Oxygen and either HC or CH<sub>4</sub>
- Accurately measure CH<sub>4</sub> or HC from inert locations with infrared sensor
- Accurately monitor CH<sub>4</sub> / HC in inert locations
- Explosion proof / Intrinsically safe design



**RX-415**

**Three & Four Gas IR**

**HC / O<sub>2</sub> / H<sub>2</sub>S / CO / CO<sub>2</sub> Monitor**

The RX 500 Series is available in various combinations to suit the monitoring needs of either LNG or oil tanker's storage vessels. Sensor technologies include infrared for HC or CH<sub>4</sub> and CO<sub>2</sub> detection, galvanic cell for oxygen detection, and electrochemical sensors for CO and H<sub>2</sub>S detection. All versions are intrinsically safe for use in hazardous environments.

**LNG Carriers**

RX-515: CH<sub>4</sub> / O<sub>2</sub> (25% Vol.) / CO (1,000 ppm) / CO<sub>2</sub> (20% Vol.)

**Oil Tankers**

RX-516: HC / O<sub>2</sub> / H<sub>2</sub>S (100 ppm)  
 RX-517: HC / O<sub>2</sub> / H<sub>2</sub>S (1,000 ppm)

**FEATURES**

- Dual range detection of % Vol. and % LEL for CH<sub>4</sub> or HC
- Accurately monitor inert locations for CH<sub>4</sub> / HC
- High range H<sub>2</sub>S 0-1,000 ppm available (RX-517)
- Explosion proof / Intrinsically safe design
- Datalogging (Max 30 hours of interval trend)



**RX-515, 516, 517**



## Single Channel Wall Mount Controller

### Beacon 110



The Beacon 110 is a powerful, low cost fixed system controller for one point of gas detection. It is microprocessor controlled, versatile, simple to install and operate. It is capable of accepting RKI sensors directly for LEL level combustibles, oxygen, hydrogen sulfide or carbon monoxide. The Beacon 110 can also accept any 4-20 mA transmitter (2 or 3 wire, 24 VDC). Sensors can be mounted directly at the Beacon 110 housing, or can be wired remote from the controller.

Housed in a NEMA 4X rated case for a weather tight seal, this case design complies with most lock out/tag out standards and can be fully secured. An external reset switch allows the alarm to be silenced from outside of the controller housing.

#### FEATURES

- Accepts RKI LEL, O<sub>2</sub>, H<sub>2</sub>S, CO, CO<sub>2</sub> direct wire sensors
- Digital display of gas and concentration
- Accepts any 4-20 mA transmitter
- Provides 4-20 mA output
- 2 programmable alarm levels with relays
- Audible alarm with reset button
- Compact, weatherproof, NEMA 4X enclosure
- 115/220 VAC or 24 VDC operation
- Low cost versatile solution
- Built-in trouble alarm with relay
- Relay rating 10 amps, form C
- Long life sensors available (2+ years typical)
- CSA/US listed controller

## 2 Channel Wall Mount Controller

### Beacon 200

The Beacon 200 is a powerful, two point low cost fixed system controller that is microprocessor controlled, versatile, simple to install and operate. It is capable of connecting RKI sensors directly for LEL level combustibles, oxygen, hydrogen sulfide, carbon monoxide, or carbon dioxide. The Beacon 200 can also accept any 4-20 mA transmitter (2 or 3 wire, 24 VDC). Sensors can be mounted directly at the Beacon 200 housing, or wired remotely from the controller. The digital display has backlighting capabilities and simultaneous readouts of the gas type and concentration. RKI offers the industry's widest selection of standard and toxic gas detection sensors, which can be utilized with the Beacon 200, providing gas monitoring protection for almost any application.

#### FEATURES

- Accepts RKI LEL, O<sub>2</sub>, H<sub>2</sub>S, CO, CO<sub>2</sub> direct wire sensors
- Simultaneous readout on 2 channels
- Digital readout of gases and concentration
- Two alarm levels per channel
- Discrete and common relays
- Relay rating 10 amps, form C
- NEMA 4X enclosure
- Accepts any 4-20 mA transmitter input
- 4-20 mA outputs
- Long life sensors available (2+ years typical)
- Easy to install, operate and expand
- CSA/US listed controller



## 4 Channel Wall Mount Controller

### Beacon 410



The Beacon 410 is a highly configurable, microprocessor-based, flexible 4 channel gas monitor. The Beacon 410 simultaneously displays the gas type, readings, and status for 4 channels of gas detection. It can monitor any combination of direct connect sensors (LEL combustibles, oxygen, hydrogen sulfide, carbon monoxide, and carbon dioxide) as well as any 4-20mA transmitters. Each channel has 3 fully configurable alarm points. Each channel also has 2 dedicated fully configurable relays and there is a bank of common relays as well. The common relays can optionally be configured as additional channel relays allowing up to 3 alarm relays per channel. A built-in silenceable audible alarm alerts you to alarm conditions. Each channel provides a 4-20mA output signal. A digital Modbus interface for remote logging of data via a Modbus network is standard. A Min-Max feature retains high & low peak readings for review at any time.

#### FEATURES

- Simultaneously monitor up to 4 channels
- Digital readout of gases and concentration
- Accepts direct connect sensors for LEL, O<sub>2</sub>, H<sub>2</sub>S, CO, and CO<sub>2</sub>
- 3 programmable alarm levels per channel
- Up to 3 configurable alarm relays per channel
- Zero follower automatically compensates sensor drift
- Accepts any 4-20 mA transmitter, 2 or 3 wire
- 115 / 220 VAC or 24 VDC operation
- Audible alarm with reset button
- Built in trouble alarm with relay
- Optional strobe & battery backup available



## Beacon 800

## 8 Channel Wall Mount Controller

The Beacon 800 is a simplified, versatile, low cost fixed system controller for one to eight points of gas monitoring. It is microprocessor controlled and is capable of accepting up to 8 separate 4-20 mA sensor transmitters which can be either 2 or 3 wire. The Beacon 800 can be powered by either 24 VDC, 115 VAC, or 220 VAC.

The 2 large digital displays have backlighting and easily identify both the gas type and the gas concentration for all 8 channels simultaneously. The Beacon 800 is also housed in a NEMA 4X rated case for a weather tight seal. This case design complies with most lock out/tag out standards and can be fully secured. The bottom mounted wiring hubs allow for easy wiring for the sensor transmitters, power, and alarm relay contacts.

### FEATURES

- Capable of up to 8 separate channels
- Digital display of all 8 channels simultaneously
- Digital readout of gases and concentration
- 115 VAC or 24 VDC operation
- NEMA 4X enclosure
- Accepts any 4-20 mA transmitter (24VDC)
- Audible alarm with reset button
- 2 programmable alarm levels per channel
- Relay rating 3 amps, form C
- Affordable and versatile
- Common alarm and fail relays
- Long life sensors (2+ years typical)
- CSA/US listed controller
- Optional heavy duty relay and recorder output boards available



## 35-3000RK

## Sample Draw Sensor / Transmitter



The 35-3000RK 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 on the flow system. Combustibles, oxygen, hydrogen sulfide and carbon monoxide versions are available with or without a 4-20 mA transmitter. The 35-3000RK is also available with both LEL and oxygen sensors in one unit. Also available with a 4-20 mA transmitter are 0-2000 PPM H<sub>2</sub> versions and 0-500 PPM hexane version.

The 35-3000RK is capable of single person calibrations and remote sampling at up to 5,000 feet 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 power
- Larger versions available with up to 4 sensor capability in one enclosure

## Explosion Proof Multi Sensor Head

## 1 - 4 Sensors

The RKI direct connect series gas sensors are highly reliable and very cost effective for the detection of common gas hazards. The direct connect series are available for LEL, O<sub>2</sub>, H<sub>2</sub>S, CO, or CO<sub>2</sub>. All sensors are explosion-proof with flame arrestors, and suitable for use in hazardous locations. The enclosure is corrosion resistant NEMA 4X stainless steel.

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-sensor head is designed to specifically interface with the RKI Beacon 410 controller.

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

### FEATURES

- 3 Sensors, 1 explosion proof housing
- Infrared sensors available for combustible gases
- Interfaces with Beacon 410 controller
- Available for combinations of LEL, O<sub>2</sub>, CO, H<sub>2</sub>S, or CO<sub>2</sub>
- Water repellent patented sensor coating
- Long life sensors (2 + years typical)
- CSA approved NEMA 4X stainless steel enclosure



# Intelligent Gas Detector

**GD-70D**

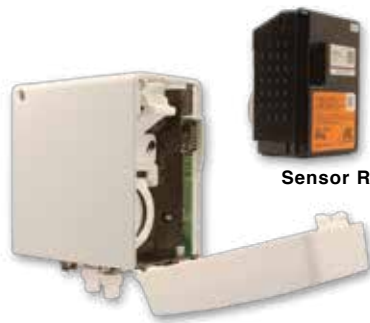


The GD-70D smart sample-draw transmitter offers an array of plug and play intelligent sensor technologies, including electrochemical sensors for a wide range of toxic gases; MOS for H<sub>2</sub>, IPA, and methanol; galvanic for O<sub>2</sub>; catalytic sensors for combustibles; and a pyrolyzer sensor for TEOS.

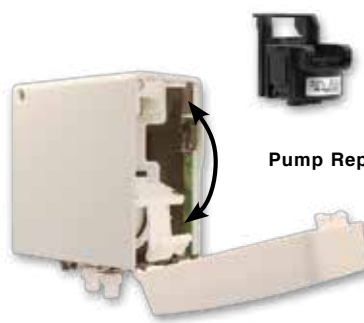
These smart sensors retain all calibration and sensor-specific data in non-volatile memory, so sensors can be hot-swapped in the field with no programming required. The sensors also retain calibration information, which means they can be conveniently calibrated separate from the transmitter, avoiding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

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



Sensor Replacement



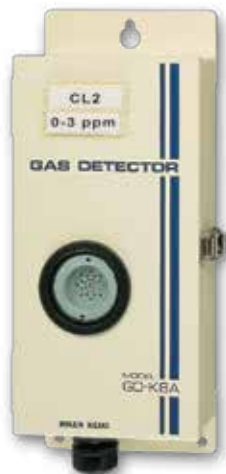
Pump Replacement



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 <sub>2</sub> , CH <sub>4</sub> , IPA, Methanol, R-32	0-15ppm TEOS in air	0-25% O <sub>2</sub> in air	0-100% LEL H <sub>2</sub> , CH <sub>4</sub> , 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

**GD-K8A**



The GD-K8A is a diffusion style toxic gas detection transmitter ideally suited to meet your toxic gas detection needs. You can choose from a wide variety of toxic sensors to install in this model. The low profile design is only 1.5 inches thick and is easy to install. This transmitter can be installed with any RKI controller, or integrated to existing PLC or DCS system via 4-20mA output (24VDC two-wire, loop powered).

The sensors for the GD-K8A are aged and tested over a one to three month period, typically resulting in a three to five year life span, providing a lower cost of ownership for your gas detection system.

## FEATURES

- Diffusion style head
- Over twenty toxic sensors to choose from
- Built-in battery for bias of sensors
- Optional NEMA 4X housing available
- Long life sensors (approx. 2-6 years)
- Quick response sensors
- Low profile design

Partial List Of Detectable Gases. Contact RKI for gases or ranges not listed					
Ammonia (NH <sub>3</sub> )	0 - 75.0 ppm	Diborane (B <sub>2</sub> H <sub>6</sub> )	0 - 0.30 ppm	Nitric Oxide (NO)	0 - 100.0 ppm
Arsine (AsH <sub>3</sub> )	0 - 0.20 ppm	Fluorine (F <sub>2</sub> )	0 - 6.0 ppm	Nitrogen Dioxide (NO <sub>2</sub> )	0 - 15.0 ppm
Bromine (Br <sub>2</sub> )	0 - 1.00 ppm	Hydrogen Chloride (HCl)	0 - 15.0 ppm	Ozone (O <sub>3</sub> )	0 - 1.0 ppm
Chlorine (Cl <sub>2</sub> )	0 - 3.0 ppm	Hydrogen Cyanide (HCN)	0 - 30 ppm	Phosphine (PH <sub>3</sub> )	0 - 1.0 ppm
Chlorine Dioxide (ClO <sub>2</sub> )	0 - 1.00 ppm	Hydrogen Fluoride (HF)	0 - 9.0 ppm	Silane (SiH <sub>4</sub> )	0 - 15.0 ppm
Carbon Monoxide (CO)	0 - 150 ppm	Hydrogen Sulfide (H <sub>2</sub> S)	0 - 30.0 ppm	Sulfur Dioxide (SO <sub>2</sub> )	0 - 10.0 ppm



**M2****Stand Alone Transmitter**

The M2™ model is a state-of-the-art transmitter that can operate as an independent, stand-alone system or as part of a system connected with an analog or digital signal to a controller, PLC, or DCS. The M2 series detects LEL combustibles, oxygen, hydrogen sulfide, or carbon monoxide. It utilizes a magnetic wand technique for performing non-intrusive calibration. The M2 provides an automatic zero drift correction feature, which results in more stable readings and reduces the need for adjustments due to sensor aging.

The housing of the M2 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. The stainless steel flame arrestor housing that covers the sensor (LEL, O<sub>2</sub>, H<sub>2</sub>S, or CO) is water repellent with a special patented water resistant coating.

**FEATURES**

- Direct digital readout
- Monitors combustibles, H<sub>2</sub>S, CO, O<sub>2</sub>, and CO<sub>2</sub>
- Catalytic and infrared option for LEL detection
- H<sub>2</sub> Specific version available
- Operates independently or with any controller, PLC or DCS
- Non intrusive calibration via magnetic wand
- 2 programmable alarm relays, plus fail relay
- Explosion proof housing
- UL version available for LEL and CO<sub>2</sub> (standard)
- CSA versions available (for H<sub>2</sub>S, and CO (standard) and LEL (optional))
- Digital Modbus & 4-20 mA output with relays

**S2****Compact Explosion Proof Sensor / Transmitter**

The S2 Series explosion proof transmitter has the same capabilities as the original S Series packaged in a dramatically smaller enclosure. The S2 Series transmitters are available for LEL (catalytic), LEL (IR) CH<sub>4</sub>, LEL (IR) HC, CO<sub>2</sub> (IR), ppm H<sub>2</sub> (MOS). The electronics are encased inside a potted package to avoid damage from mechanical abuse or corrosion, and this assembly is installed inside an explosion-proof enclosure. All sensors are explosion-proof with flame arrestors and approved for use in hazardous atmospheres.

The only tools required to calibrate the S2 Series are a voltmeter, screwdriver, and cal gas. The zero and calibration functions are performed by adjusting potentiometers on the amplifiers. The amplifier has test jacks for connecting to a voltmeter for calibration purposes, and the sensor response is viewed on the voltmeter as a 100 mV to 500 mV signal. Field calibration can be performed easily and quickly by one person.

**FEATURES**

- Explosion proof housing
- Stainless steel enclosure available
- Patented water repellent sensor coating
- Available for LEL, H<sub>2</sub>, H<sub>2</sub>S, CO, O<sub>2</sub>, and CO<sub>2</sub>
- MOS sensor for ppm H<sub>2</sub>
- IR sensors available for LEL & CO<sub>2</sub>
- H<sub>2</sub> Specific LEL and ppm versions available
- Long life sensors (2 + years typical)
- Competitively priced
- UL or CSA approved

**Direct Connect****Low Cost Explosion Proof Sensor**

The Direct Connect series are available for LEL, H<sub>2</sub> Specific LEL, LEL IR, Oxygen, H<sub>2</sub>S, CO, CO<sub>2</sub>, and for a variety of toxic gases. The sensors for LEL, H<sub>2</sub>, Oxygen, H<sub>2</sub>S, CO<sub>2</sub>, and Carbon Monoxide are explosion-proof with flame arrestors, and approved for use in hazardous areas (Class 1, Div. 1 Groups B, C, D). An optional non-explosion proof version is available for oxygen, H<sub>2</sub>S, CO, and CO<sub>2</sub> for use in non-hazardous atmospheres.

The Direct Connect 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 that allows quick replacement in the field with no tools required. Toxic sensors are designed for use in Class I, Div. 2 hazardous locations and are available for CL<sub>2</sub>, NH<sub>3</sub>, SO<sub>2</sub>, PH<sub>3</sub>, AsH<sub>3</sub>, and HCN.

**FEATURES**

- Available for LEL, H<sub>2</sub>S, CO, and CO<sub>2</sub>
- Toxic sensors include NH<sub>3</sub>, AsH<sub>3</sub>, Cl<sub>2</sub>, NO, PH<sub>3</sub>, and SO<sub>2</sub>
- IR sensors available for LEL & CO<sub>2</sub>
- Explosion proof housing
- Stainless steel enclosure available
- Patented water repellent sensor coating
- Long life sensors (2 + years typical)
- UL or CSA approved



# H2 Specific Sensor / Transmitter H2 Specific Sensor



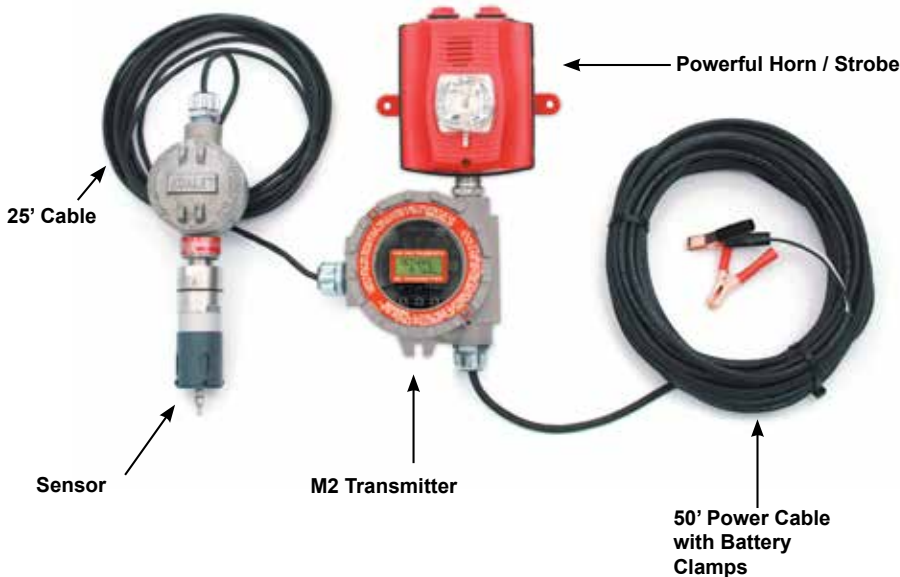
Gas monitoring that is specific to hydrogen is now available from RKI Instruments. RKI offers the hydrogen specific sensors, one version is highly sensitive with a range of 0-2000 PPM. This is 20 times more sensitive than standard LEL detectors. The technology is based on a proprietary hydrogen specific 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 gases.

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

**FEATURES**

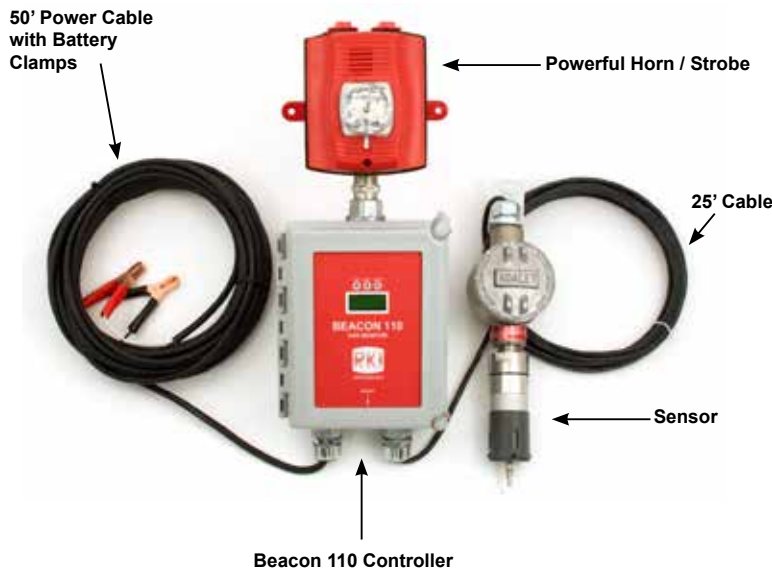
- Explosion proof housing
- H<sub>2</sub> specific solid state sensor (0-2000 PPM)
- Catalytic H<sub>2</sub> specific sensor (0-100 % LEL)
- Molecular sieve filter
- Eliminates false alarms from IPA and other gases
- 4-20 mA transmitter, 24VDC, or direct connect
- UL version standard
- CSA version optional
- Poison resistant
- PPM versions available as S2 transmitters
- LEL versions available as S2, M2, or Direct Connect

# H2S Detection for Drill Rigs Rig Monitor



RKI Instruments is proud to announce our new RM series continuous gas monitors. These monitors are specifically designed for detection of H<sub>2</sub>S around temporary drilling rigs. All units include our long-life plug in electrochemical H<sub>2</sub>S sensor, range 0-100 ppm. 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 / strobes mounted directly to the M2 or Beacon controller. Unit is powered by 12VDC and comes with battery clamps on 50' Cable.

- 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



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

Also available for LEL detection: Consult factory



**PS 2****Single Point Stand Alone Monitor**

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 the 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 or PPM detection ranges available
- 2 alarm levels
- Stand alone system
- Audible and visual alarms
- Compact design
- Simple installation
- AC version equipped with power cord
- Relay contacts rated 12A @ 115 VAC
- Low maintenance
- Input voltages: 24 VDC standard, 115 VAC or 48 VDC optional
- 30' sensor cable (std.)
- For use in non hazardous environments only

**FP-260AGZS, 300, 301, & 330****Paper Tape Toxic Gas Detector****Paper Tape Instruments**

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 is equipped with a digital display showing the type of gas and concentration in either PPM or PPB. Each model 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

Gas Name	Gas Formula	Range	FP-260AGZS	FP-300	FP-330	FP-301
Ammonia	NH <sub>3</sub>	0-4ppm		•		
Arsine	AsH <sub>3</sub>	0-150ppb		•		•
		0-15ppb				
Boron Trifluoride	BF <sub>3</sub>	0-3ppm		•		
Chlorine	Cl <sub>2</sub>	0-1.5ppm				
		0-0.8ppm		•		
		0-1.5ppm				
Diborane	B <sub>2</sub> H <sub>6</sub>	0-300ppb		•		
Hydrogen Bromide	HBr	0-2ppm		•		
Hydrogen Chloride	HCl	0-1ppm		•		
		0-8ppm				
Hydrogen Fluoride	HF	0-3ppm		•		
Hydrogen Selenide	H <sub>2</sub> Se	0-200ppb				•
Hydrogen Sulfide	H <sub>2</sub> S	0-100ppb		•		
		0-10ppm				
Octafluorocyclopentene	C <sub>5</sub> F <sub>8</sub>	0-5ppm	•			
Perfluorobutadiene	C <sub>4</sub> F <sub>6</sub>	0-5ppm	•			
Phosgene	COCl <sub>2</sub>	0-300ppb		•		
Phosphine	Ph <sub>3</sub>	0-500ppb		•		
		0-900ppb				
Silane	SiH <sub>4</sub>	0-15ppm		•		
Formaldehyde	HCHO	0-0.5ppm				
		0-1ppm				•
		0-5ppm				

# Detectable Gases

Measurable Gases	Symbol	TLV/TWA	Range	Diffusion Detector	Sample Draw	Portable
Acetic Acid	CH <sub>3</sub> COOH	1.5 PPM	30 PPM	–	GD-K7D2	–
Ammonia	NH <sub>3</sub>	25 PPM	75 PPM	DC / S2 / M2 / GD-K8A-NH3	GD-K7D2 / GD-K71D / GD-70D	EAGLE / EAGLE 2 / SC-01
Ammonia	NH <sub>3</sub>	25 PPM	1 PPM / 4 PPM	–	FP-301 / FP-300	–
Arsine	AsH <sub>3</sub>	0.05 PPM	0.2 / 1.5 PPM	DC / S2 / M2 / GD-K8A	GD-K7D2 / GD-K71D / GD-70D	EAGLE / EAGLE 2 / SC-01
Boron Trichloride	BCl <sub>3</sub>	HCl C 5 PPM	15 PPM	GD-K8A-BCl <sub>3</sub>	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Boron Trifluoride	BF <sub>3</sub>	HF C 3 PPM	9 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Bromine	Br <sub>2</sub>	0.1 PPM	1 PPM	GD-K8A-BR2	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Butane	C <sub>4</sub> H <sub>10</sub>	LEL = 1.9%	100% LEL	DC / S2 / M2 / GD-A8 / 61-1000RK / PS2	35-3000RK / GD-D8 / GD-70D	GP-01 / EAGLE / EAGLE 2 / GX-2012 / Gas Tracer / GX-2009
Carbon Dioxide	CO <sub>2</sub>	5,000 PPM	2,000 PPM	RI-215A	RI-215D	–
Carbon Dioxide	CO <sub>2</sub>	5,000 PPM	5,000 PPM	RI-215A	RI-215D	EAGLE / EAGLE 2
Carbon Dioxide	CO <sub>2</sub>	5,000 PPM	10,000 PPM	RI-215A	RI-215D	EAGLE / EAGLE 2
Carbon Dioxide	CO <sub>2</sub>	5,000 PPM	5%, 20%, 60%	DC / S2 / M2	35-3000RK	EAGLE / EAGLE 2
Carbon Monoxide	CO	25 PPM	75 / 150 PPM	GD-K8A-CO	GD-K7D2 / GD-K71D / GD-70D	SC-01
Carbon Monoxide	CO	25 PPM	300 PPM	DC / S2 / M2 / M-Series / CO-500	35-3000RK-CO	–
Carbon Monoxide	CO	25 PPM	500 PPM	–	–	GasWatch 2 / CO-01 / EAGLE / EAGLE 2 / GX-2012 / Gas Tracer / GX-2009
Chlorine	Cl <sub>2</sub>	0.5 PPM	3 PPM	DC / S2 / M2 / GD-K8A-CL2	GD-K7D2 / GD-K71D / GD-70D	EAGLE / EAGLE 2 / SC-01
Chlorine Trifluoride	ClF <sub>3</sub>	0.1 PPM	0.6 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Combustibles LEL	LEL	–	100% LEL	DC / S2 / M2 / GD-A8 / 61-1000RK / PS2	35-3000RKA / GD-D8V / GD-70D	GP-01 / EAGLE / EAGLE 2 / GX-2012 / Gas Tracer / GX-2009
Combustibles PPM	PPM	–	various PPM	GD-A8V	GD-70D	EAGLE / EAGLE 2
Diborane	B <sub>2</sub> H <sub>6</sub>	0.1 PPM	0.3 PPM	GD-K8A-B <sub>2</sub> H <sub>6</sub>	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Dichlorosilane	DCS	HCl 5 PPM	15 PPM	GD-K8A-DCS	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Disilane	Si <sub>2</sub> H <sub>6</sub>	5 PPM	15 PPM	GD-K8A-Si <sub>2</sub> H <sub>6</sub>	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Fluorine	F <sub>2</sub>	1 PPM	3 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Formaldehyde	HCHO	C 0.3 PPM	1 PPM	–	FP-330	FP-30
Germane	GeH <sub>4</sub>	0.2 PPM	0.8 PPM	–	GD-K7D2 / GD-K71D / GD-70D	–
Halocarbons	HCFC	Various	0 ~ 5,000 (typ)	–	RI-257	–
Hexane	C <sub>6</sub> H <sub>14</sub>	–	2,000 PPM	GD-A8V	GD-70D	EAGLE / EAGLE 2
Hexane	C <sub>6</sub> H <sub>14</sub>	LEL = 1.1%	100% LEL	S2 / GD-A8 / 61-1000RK / PS2	35-3000RK / GD-D8	GP-01 / EAGLE / EAGLE 2 / GX-2012 / Gas Tracer / GX-2009
Hydrazine	N <sub>2</sub> H <sub>4</sub>	0.1 PPM	4 PPM	–	FP-300	–
Hydrocarbon LEL	LEL	–	100% LEL	M2 / S2 / GD-A8 / 61-1000RK / PS2	35-3000RK-LEL / GD-D8 / GD-70D	GP-01 / EAGLE / EAGLE 2 / RI-415 / RX-415 GX-2012 / Gas Tracer / GX-2009
Hydrocarbon PPM	PPM	–	various PPM	GD-A8V	GD-70D / GD-D8V	EAGLE / EAGLE 2
Hydrogen LEL	H <sub>2</sub>	LEL = 4%	100% LEL	DC / S2 / M2 / GD-A8 / H2 Specific / 61-1000RK	GD-70D / GD-D8	GP-01 / EAGLE / EAGLE 2 / GX-2012 Gas Tracer / GX-2009
Hydrogen PPM	H <sub>2</sub>	–	2,000 PPM	S2 / H2 Specific / GD-A8V-H2	GD-70D / GD-D8V-H2	EAGLE / EAGLE 2
Hydrogen Bromide	HBr	C 3 PPM	9 PPM	GD-K8A-HBR	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Hydrogen Chloride	HCl	C 5 PPM	15 PPM	GD-K8A-HCL	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Hydrogen Cyanide	HCN	STEL C 4.7 PPM	15 / 30 PPM	DC / S2 / M2 / GD-K8A-HCN	GD-K7D2 / GD-K71D / GD-70D	EAGLE / EAGLE 2 (0-15ppm)
Hydrogen Fluoride	HF	C 3 PPM	9 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Hydrogen Iodide	HI	–	5 PPM	–	GD-K7D2H / GD-K71DH	EAGLE
Hydrogen Sulfide	H <sub>2</sub> S	1 PPM	1 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Hydrogen Sulfide	H <sub>2</sub> S	1 PPM	30 PPM	GD-K8A	GD-K7D2 / GD-K71D / GD-70D	EAGLE / SC-01
Hydrogen Sulfide	H <sub>2</sub> S	1 PPM	100 PPM	DC / S2 / M2 / M-Series	35-3000RK-H2S / RKA-H2S	GasWatch 2 / HS-01 / EAGLE / EAGLE 2 / GX-2012 / Gas Tracer / GX-2009
Iodine	I <sub>2</sub>	STEL C 0.1 PPM	1 PPM	–	GD-K7D2 / GD-K71D	EAGLE
Isopropyl Alcohol (IPA)	CH <sub>3</sub> CHOHCH <sub>3</sub>	400 PPM	2,000 PPM	GD-A8V	GD-70D / GD-D8V	EAGLE / EAGLE 2
Methane	CH <sub>4</sub>	LEL = 5%	100% LEL	DC / S2 / M2 / GD-A8 / 61-1000RK / PS2	GD-70D / GD-D8	GP-01 / EAGLE / EAGLE 2 / RI-415 / RX-415 / GX-2012 / Gas Tracer / GX-2009
Nitric Acid	HNO <sub>3</sub>	2 PPM	20 PPM	–	GD-K7D2	EAGLE
Nitric Oxide	NO	25 PPM	100 PPM	GD-K8A-NO	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Nitrogen Dioxide	NO <sub>2</sub>	3 PPM	15 PPM	GD-K8A-NO2	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Nitrogen Tetraoxide	N <sub>2</sub> O <sub>4</sub>	NO2 3 PPM	15 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Nitrogen Trifluoride	NF <sub>3</sub>	10 PPM	30 PPM	–	GD-K8DG / GD-K77DG / GD-70D	–
Octafluorocyclopentene	C <sub>5</sub> F <sub>8</sub>	–	5 PPM	–	FP-260AGZS	–
Oxygen	O <sub>2</sub>	–	25% / 40%	DC / S2 / M2 / OX-500 / 65-2502RK	35-3000RK-OXY / GD-70D	GasWatch 2 / OX-01 / EAGLE / EAGLE 2 / RX-415 / GX-2012 / Gas Tracer / GX-2009
Ozone	O <sub>3</sub>	0.1 PPM	0.6 PPM	GD-K8A-O3	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Pentane	C <sub>5</sub> H <sub>12</sub>	LEL = 1.5%	100% LEL	DC / S2 / M2 / GD-A8 / 61-1000RK / PS2	35-3000RK / GD-D8	GP-01 / EAGLE / EAGLE 2 / GX-2012 / Gas Tracer / GX-2009
Perfluorobutadiene	C <sub>4</sub> F <sub>6</sub>	–	5 PPM	–	FP-260AGZS	–
Phosphine	PH <sub>3</sub>	0.3 PPM	1 PPM	GD-K8A-PH3 / DC / S2 / M2	GD-K7D2 / GD-K71D / GD-70D	EAGLE / EAGLE 2 / SC-01
Propane	C <sub>3</sub> H <sub>8</sub>	LEL = 2.1%	100% LEL	DC / S2 / M2 / GD-A8 / 61-1000RK	35-3000RK / GD-D8 / GD-70D	GP-01 / EAGLE / EAGLE 2 / GX-2012 / Gas Tracer / GX-2009
Silane	SiH <sub>4</sub>	5 PPM	15 PPM	GD-K8A-SiH <sub>4</sub>	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Silicon Tetrachloride	SiCl <sub>4</sub>	HCl C 5 PPM	15 PPM	GD-K8A-SiCl <sub>4</sub>	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Silicon Tetrafluoride	SiF <sub>4</sub>	HF C 3 PPM	9 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Sulfur Dioxide	SO <sub>2</sub>	.25 PPM	6 / 10 / 15 / 30 PPM	DC / S2 / M2 / GD-K8A-SO2	GD-K7D2 / GD-K71D / GD-70D	EAGLE / EAGLE 2 / SC-01
Sulfur Tetrafluoride	SF <sub>4</sub>	HF C 3 PPM	9 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Tetraethyl Orthosilicate	TEOS	10 PPM	15 PPM	–	GD-S77DG-TEOS / GD-S8DG-TEOS / GD-70D	–
Trichlorosilane	TCS	HCl C 5 PPM	15 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
Trimethoxy Phosphate	TMP	2 PPM	15 PPM	–	GD-S77DG / GD-S8DG-TMP / GD-70D	–
Trimethoxyboron	TMB	–	500 PPM	–	GD-S77DG / GD-S8DG - TMB / GD-70D	–
Tungsten Hexafluoride	WF <sub>6</sub>	HF C 3 PPM	9 PPM	–	GD-K7D2 / GD-K71D / GD-70D	EAGLE
1,1,1-Trichloroethane	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>	350 PPM	0 ~ 2,000 PPM	GD-A8V	GD-D8V	–

\*Other gases and ranges also available. Please call RKI Instruments at (800) 754-5165.





## Who Is RKI Instruments?

A world leader in gas detection AND sensor technology for over 70 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 70 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. The new GX-2012 and Gas Tracer models were designed specifically for the Natural Gas Utility Industry and built around our own high quality, long lasting sensors.

### Support

The average RKI employee has over 14 years of gas detection experience. When you call RKI for support you will speak to a person with an expertise in gas detection equipment. We maintain a large inventory of product and can ship most orders within 24 hours. RKI also provides support through a network of authorized safety equipment distributors, technical sales representatives, and service centers.

### Training

Our products ship with an operator's manual as well as an interactive computer-based training CD. The interactive training material is also available from our web site. On site training and factory classes are also available.

# Gas Detection For Life



**Authorized Distributor:**