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

RKI 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 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,

Bob Pellissier
President

LEL, O2, H2S, CO, NH3, Cl2, HCN, NO2, SO2, CO2, HC's, VOC's

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

C   US

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
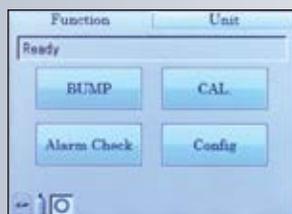
Intrinsically Safe
- ATEX / IECEX
- $_cCSA_{us}$

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

(800) 754-5165

Confined Space / Leak Detector / Bar Hole Sample Draw Monitor

LEL, O2, H2S, CO

GX-2012

Monitors

• PPM/LEL/% vol CH4

• O2

• CO

• H2S

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.

— Internal hydrophobic filter

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

Combustible display automatically switches between % LEL and % volume

— 95 db audible & vibration alarm

— Status indicators
• Pump activity
• Blinking heart (microprocessor status)
• Battery level

Peak level bar display

IP-67

— Time indicator

Glove friendly buttons

Datalogging standard
• Snapshot logging
• Bar hole logging
• Calibration and bump test records

• ATEX / IECEX
• CSA

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 replaceable 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**

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 (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 alarm 25 ppm 2nd alarm 50 ppm TWA alarm 25 ppm STEL alarm 200 ppm Over alarm 500 ppm
Hydrogen Sulfide (H2S)	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

• 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)

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

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.

Datalogging IR port

Bright LED alarm

Sensor protective hydrophobic filter

2 Preset alarms user adjustable

Loud audible alarm

Dust and water resistant with IP-67 approval

Removable protective boot

Large character auto backlite LCD display

Glove Friendly buttons

Impact resistant rubber boot

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 (H2S)	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 (O2)	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

LEL, O2, H2S, CO, CH4, NH3, AsH3, Cl2, HCN, PH3, SO2

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

EAGLE 2

Alarm LED's with wide visibility

IrDA communication port

Internal / external hydrophobic filters

Self healing polyurethane protective overlay

Smart plug & play sensors for toxic gases

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

4 button operation with glow in the dark text

Programmable gas channel positions

Powerful internal sample pump with 125' range

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

Programmable gas channel positions

Combine catalytic and IR sensors for combustible detection

Multi lingual (5 languages)

Glove friendly handle and buttons

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
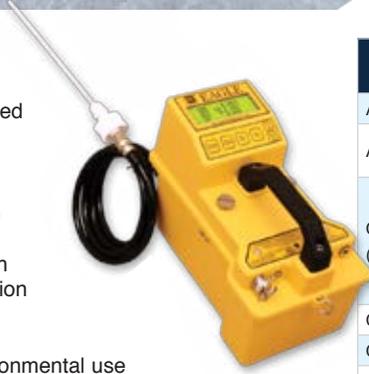
SDM-E2 Calibration Station

Standard Confined Space Gases	
Hydrocarbons (CH4, std)	0 - 100% LEL 0 - 50,000 ppm 0 - 5% vol.
Oxygen (O2)	0 - 40% vol.
Carbon Monoxide (CO)	0 - 500 ppm
Hydrogen Sulfide (H2S)	0 - 100 ppm
Super Toxics and Other Gases	
Ammonia (NH3)	0 - 75 ppm
Arsine (AsH3)	0 - 1.5 ppm
Carbon Dioxide (CO2) (IR Sensor)	0 - 10,000 ppm 0 - 5% vol. 0 - 60% vol.
Chlorine (Cl2)	0 - 3 ppm
Hydrogen Cyanide (HCN)	0 - 30 ppm
Hydrogen Sulfide (H2S)	0 - 30 ppm
Methane (CH4) (IR Sensor)	0 - 100% LEL 0 - 100% vol.
HC IR	0 - 100% LEL 0 - 30% vol.
Phosphine (PH3)	0 - 1 ppm
Sulfur Dioxide (SO2)	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 (NH3)	0 - 75 ppm	Methane (CH4) (IR Sensor)	0 - 100% LEL 0 - 100% vol.
Arsine (AsH3)	0 - 1 ppm 0 - 200 ppb	Isobutane (C4H10) (IR Sensor)	0 - 100% LEL 0 - 30% vol.
Carbon Dioxide (CO2) (IR Sensor)	0 - 5,000 ppm 0 - 10,000 ppm 0 - 5% vol. 0 - 20% vol. 0 - 60% vol.	Nitrogen Dioxide (NO2)	0 - 15 ppm
		Nitric Oxide (NO)	0 - 100 ppm
		Phosphine (PH3)	0 - 1 ppm
		Silane (SiH4)	0 - 15 ppm
Chlorine (Cl2)	0 - 3 ppm	Sulfur Dioxide (SO2)	0 - 10 ppm
Chlorine Dioxide (ClO2)	0 - 1 ppm	**Standard Confined Space Gases**	
Fluorine (F2)	0 - 5 ppm	Hydrocarbons (CH4, std)	0 - 100% LEL 0 - 50,000 ppm
Hydrogen Fluoride (HF)	0 - 9 ppm		
Hydrogen Chloride (HCl)	0 - 15 ppm	Oxygen (O2)	0 - 40% vol.
Hydrogen Cyanide (HCN)	0 - 30 ppm	Carbon Monoxide (CO)	0 - 500 ppm
Hydrogen Sulfide (H2S)	0 - 1 ppm 0 - 30 ppm	Hydrogen Sulfide (H2S)	0 - 100 ppm

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 (NH3)	0 - 75 ppm
Arsine (AsH3)	0 - 1.5 ppm
Carbon Monoxide (CO)	0 - 75 ppm
Chlorine (Cl2)	0 - 3.00 ppm
Hydrogen Cyanide	0 - 15 ppm
Hydrogen Sulfide (H2S)	0 - 30.0 ppm
Phosphine (PH3)	0 - 1.00 ppm
Sulfur Dioxide (SO2)	0 - 6.00 ppm

Formaldehyde Specific Monitor

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

RX-8000

Dual Gas IR With Marine Approvals

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 / 02 (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

1 to 8 Channel Capacity

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
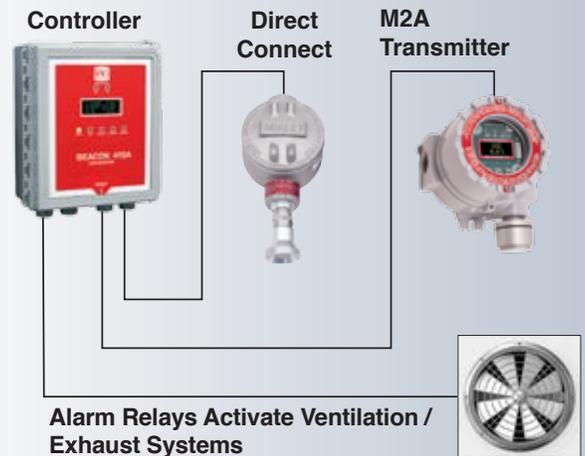- Built-in trouble alarm with relay
- RFI / EMI resistant

	Channels	Alarm levels per channel	Relays per channel	Common relays	Direct connect sensors
Beacon 110	1	2	3	N/A	Yes
Beacon 200	2	2	3	3	Yes
Beacon 410A	4	3	3	5	Yes
Beacon 800	8	2	3	3	No

Controller **Direct Connect** **M2A Transmitter**

Alarm Relays Activate Ventilation / Exhaust Systems

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
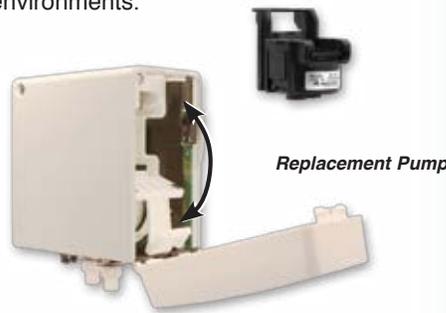

Smart Sample Draw Transmitter

LEL, O2, Toxics

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.
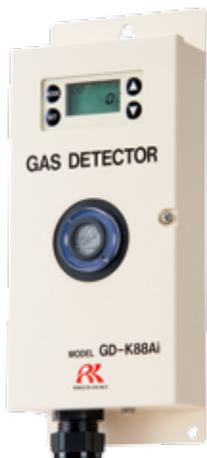
Replacement Pump

Replacement Sensor

TOOL FREE MAINTENANCE

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	H2, CH4, IPA, Methanol, R-32	0-15ppm TEOS in air	0-25% O2 in air	0-100% LEL H2, CH4, 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 (NH3)	0 - 75.0 ppm	Fluorine (F2)	0 - 6.0 ppm	Nitrogen Dioxide (NO2)	0 - 15.0 ppm
Arsine (AsH3)	0 - 0.20 ppm	Hydrogen Chloride (HCl)	0 - 15.0 ppm	Ozone (O3)	0 - 1.0 ppm
Bromine (Br2)	0 - 1.00 ppm	Hydrogen Cyanide (HCN)	0 - 30 ppm	Phosphine (PH3)	0 - 1.0 ppm
Chlorine (Cl2)	0 - 3.0 ppm	Hydrogen Fluoride (HF)	0 - 9.0 ppm	Silane (SiH4)	0 - 15.0 ppm
Chlorine Dioxide (ClO2)	0 - 1.00 ppm	Hydrogen Sulfide (H2S)	0 - 30.0 ppm	Sulfur Dioxide (SO2)	0 - 6 ppm
Carbon Monoxide (CO)	0 - 150 ppm	Hydrogen Sulfide (H2S)	0 - 1.00 ppm	Optional	0 - 30 ppm
Diborane (B2H6)	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.
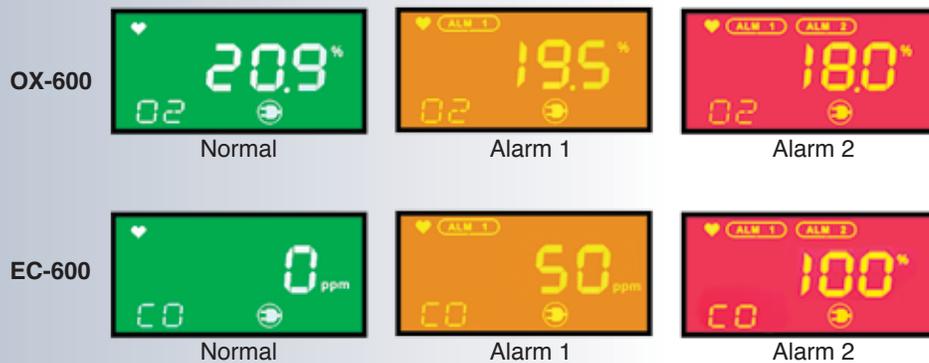
Each model has 2 preset alarms, and comes ready to operate with a simple wall mount bracket and 10 foot power cord (AC units). It is capable of operating with three different power options; 115 VAC, 24 VDC or alkaline batteries.

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

OX-600

| Normal | Alarm 1 | Alarm 2 |

EC-600

| Normal | Alarm 1 | Alarm 2 |

Remote Sensor

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

(800) 754-5165

Fixed Systems Detector Assemblies

Sample Draw Sensor / Transmitter

LEL, O2, H2S, CO, CO2

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

Digester Process Gas Monitoring

High Range H2S, CH4 Vol, O2, CO2

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 an 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

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

H2S   **LEL**   **O2**

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

Gas Name	Gas Formula	Range	FP-300	FP-330	FP-301
Ammonia	NH3	0 - 4ppm	●		
Arsine	AsH3	0 - 150ppb	●		●
		0 - 15ppb			
Boron Trifluoride	BF3	0 - 3ppm	●		
Chlorine	Cl2	0 - 1.5ppm	●		
		0 - 0.8ppm			
Diborane	B2H6	0 - 300ppb	●		
Hydrogen Bromide	HBr	0 - 2ppm	●		
Hydrogen Chloride	HCl	0 - 1ppm	●		
		0 - 8ppm			
Hydrogen Fluoride	HF	0 - 3ppm	●		
Hydrogen Selenide	H2Se	0 - 200ppb			●
Hydrogen Sulfide	H2S	0 - 100ppb	●		
		0 - 10ppm			
Octafluorocyclopentene	C5F8	0 - 5ppm	●		
Perfluorobutadiene	C4F6	0 - 5ppm	●		
Phosgene	COCl2	0 - 300ppb	●		
Phosphine	PH3	0 - 500ppb	●		
		0 - 900ppb			
Silane	SiH4	0 - 15ppm	●		
Formaldehyde	HCHO	0 - 0.5ppm		●	
		0 - 1ppm			
		0 - 5ppm			

Fixed Systems Detector Assemblies

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

Rig Monitor

Powerful Horn / Strobe

25' Cable

Sensor

M2A Transmitter

50' Power Cable with Battery Clamps

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

50' Power Cable with Battery Clamps

Powerful Horn / Strobe

25' Cable

Sensor

Beacon 110 Controller

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	Fixed flow regulators — 2 Cylinder Case 34AL — 34L — Tubing — GX-2009 Cal Cup — 81-1117RK Cal Cup	Demand flow regulators — 2 Cylinder Case 34AL — 34L — Tubing
Large Kit	Fixed flow regulator — 3 cylinder case — 2 cylinder case 58AL — 103L — Tubing — GX-2009 Cal Cup — 81-1117RK Cal Cup	Demand flow regulator — 3 cylinder case — 2 cylinder case 58AL — 103L — Tubing
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	CH3COOH	1.5 PPM	30 PPM	–	GD-70D	–
Ammonia	NH3	25 PPM	75 PPM/400 PPM	GD-K88Ai-NH3 / DC / S2 / M2A	GD-70D	GX-6000 / EAGLE / EAGLE 2 / SC-01 / SP-220
Ammonia	NH3	25 PPM	1 PPM / 4 PPM	–	FP-311 / FP-310	–
Arsine	AsH3	0.05 PPM	0.2 / 1.5 PPM	DC / S2 / M2A / GD-K88Ai-ASH3	GD-70D	EAGLE / EAGLE 2 / SC-01 / SP-220
Benzene	C6H6	0.5 PPM	various PPM	GD-A80V	GD-70D	EAGLE / EAGLE 2 / GX-6000
Boron Trichloride	BCl3	HCl C 5 PPM	15 PPM	GD-K88Ai-BCl3	GD-70D	EAGLE
Boron Trifluoride	BF3	HF C 3 PPM	9 PPM	–	GD-70D	EAGLE
Bromine	Br2	0.1 PPM	1 PPM	GD-K88Ai-BR2	GD-70D	EAGLE
Butane	C4H10	LEL=1.9%	100% LEL	DC / S2 / M2A / GD-A80 / PS2	35-3001 / GD-D58 / GD-70D	GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / RX-8000
Carbon Dioxide	CO2	5,000 PPM	2,000 PPM	RI-215A	RI-215D	–
Carbon Dioxide	CO2	5,000 PPM	5,000 PPM	RI-215A / DC / S2 / M2A	RI-215D, 35-3001	EAGLE / EAGLE 2
Carbon Dioxide	CO2	5,000 PPM	10,000 PPM	RI-215A	RI-215D	EAGLE / EAGLE 2 / GX-6000
Carbon Dioxide	CO2	5,000 PPM	5%,20,50,60,100%	DC / S2 / 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 / S2 / M2A / M Series	35-3001-CO	CO-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009
Chlorine	Cl2	0.5 PPM	3 PPM / 10 PPM	GD-K88Ai-CL2 / DC / S2 / M2A	GD-70D	EAGLE / EAGLE 2 / GX-6000 / SC-01
Chlorine Trifluoride	ClF3	0.1 PPM	0.6 PPM	–	GD-70D	EAGLE
Combustibles LEL	LEL	–	100% LEL	DC / S2 / M2A / GD-A80 / PS2	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	B2H6	0.1 PPM	0.3 PPM	GD-K88Ai-B2H6	GD-70D	EAGLE / SP-220
Dichlorosilane	DCS	HCl 5 PPM	15 PPM	GD-K88Ai-DCS	GD-70D	EAGLE
Disilane	Si2H6	5 PPM	15 PPM	GD-K88Ai-SI2H6	GD-70D	EAGLE
Fluorine	F2	1 PPM	3 PPM	–	GD-70D	EAGLE
Formaldehyde	HCHO	C 0.3 PPM	1 / 500 PPM	–	FP-330	FP-31 / SP-220
Germane	GeH4	0.2 PPM	0.2 / 0.8 PPM	–	GD-70D	SP-220
Halocarbons	HCFC	Various	0 - 5,000 (typ)	–	RI-257, GD-70D	–
Hexane	C6H14	–	2,000 PPM	GD-A80V	GD-70D, GD-D58V	EAGLE / EAGLE 2 / GX-6000
Hexane	C6H14	LEL = 1.1%	100% LEL	S2 / GD-A80 / DC / M2A / PS2	35-3001 / GD-D58	GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009
Hydrazine	N2H4	0.1 PPM	4 PPM	–	FP-310	–
Hydrocarbon LEL	LEL	–	100% LEL	M2A / S2 / GD-A80 / DC / PS2	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	H2	LEL = 4%	100% LEL	DC / S2 / M2A / GD-A80 / H2 Specific / PS2	GD-70D / GD-D58	GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 Gas Tracer / GX-2009
Hydrogen PPM	H2	–	10 / 2,000 PPM	H2 Specific / GD-A88V-H2/S2	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 / S2 / 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	H2S	0.1 / 1 PPM	1 / 30 PPM	GD-K88Ai-H2S	GD-70D	EAGLE / SC-01
Hydrogen Sulfide	H2S	1 PPM	100 PPM	DC / S2 / M2A / M-Series	35-3001-H2S	HS-03 / EAGLE / EAGLE 2 /GX-6000 / GX-2012 / GX-2009
Iodine	I2	STEL C 0.1 PPM	1 PPM	–	GD-70D	EAGLE
Isobutane	C4H10	LEL = 1.8%	100% LEL	DC / S2 / M2A / GD-A80 / PS2	35-3001 / GD-D58 / GD-70D	GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / RX-8000
Isopropyl Alcohol (IPA)	CH3CHOHCH3	400 PPM	10 / 2,000 PPM	GD-A80V	GD-70D / GD-D58V	EAGLE / EAGLE 2 / GX-6000 / SP-220
Methane	CH4	LEL = 5%	100% LEL	DC / S2 / M2A / GD-A80 / PS2	GD-70D / GD-D58	GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 RX-8000
Nitric Acid	HNO3	2 PPM	20 PPM	–	GD-70D	EAGLE
Nitric Oxide	NO	25 PPM	100 PPM	GD-K88Ai-NO	GD-70D	EAGLE
Nitrogen Dioxide	NO2	3 PPM	9 PPM / 15 PPM	GD-K88Ai-NO2	GD-70D	EAGLE / GX-6000
Nitrogen Tetraoxide	N2O4	NO2 3 PPM	15 PPM	–	GD-70D	EAGLE
Nitrogen Trifluoride	NF3	10 PPM	30 PPM	–	GD-70D	–
Octafluorocyclopentene	C5F8	–	5 PPM	–	FP-300AGZS	–
Oxygen	O2	–	25% / 40%	OX-600 / DC / S2 / M2A	35-3001-OXY / GD-70D	OX-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / RX-8000
Ozone	O3	0.1 PPM	0.6 PPM	GD-K88Ai-O3	GD-70D	EAGLE
Pentane	C5H12	LEL = 1.5%	100% LEL	DC / S2 / M2A / GD-A80 / PS2	35-3001 / GD-D58	GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009
Perfluorobutadiene	C4F6	–	5 PPM	–	FP-300AGZS	–
Phosphine	PH3	0.3 PPM	1 / 2 PPM	GD-K88Ai-PH3 / DC / S2 / M2A	GD-70D	EAGLE / EAGLE 2 / SC-01 / SP-220
Propane	C3H8	LEL = 2.1%	10 PPM / 100% LEL	DC / S2 / M2A / GD-A80 / PS2	35-3001 / GD-D58 / GD-70D	GP-03 / EAGLE / EAGLE 2 / GX-6000 / GX-2012 / Gas Tracer / GX-2009 / SP-220
Silane	SiH4	5 PPM	0.5 / 15 PPM	GD-K88Ai-SIH4	GD-70D	EAGLE / SP-220
Silicon Tetrachloride	SICl4	HCl C 5 PPM	15 PPM	GD-K88Ai-SICl4	GD-70D	EAGLE
Silicon Tetrafluoride	SiF4	HF C 3 PPM	9 PPM	–	GD-70D	EAGLE
Sulfur Dioxide	SO2	.25 PPM	1/6/10/15/30 PPM	DC / S2 / M2A / GD-K88Ai-SO2	GD-70D	EAGLE / EAGLE 2 / GX-6000 / SC-01 / SP-220
Sulfur Tetrafluoride	SF4	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	C6H5CH3	20 PPM	various PPM	GD-A80V	GD-70D / GD-D58V	EAGLE / EAGLE 2 / GX-6000
Tungsten Hexafluoride	WF6	HF C 3 PPM	9 PPM	–	GD-70D	EAGLE
1 1 1-Trichloroethane	C2H3Cl3	350 PPM	0 - 2,000 PPM	GD-A80V	GD-D58V	–
Volatile Organic Compound	VOCs	–	0-50 / 50-6000 PPM	–		EAGLE 2 / GX-6000

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.

RKI Instruments, Inc.
33248 Central Ave.
Union City, CA 94587
(800) 754-5165 · (510) 441-5656
www.rkiinstruments.com