

SINGLE GAS CLIP-ON PERSONAL MONITOR

Gas Detection For Life

01 Series



Features

- 4 Gases to choose from: LEL, CO, H₂S, or O₂
- Operates 3,000 hrs. on alkaline batteries (16 hours for LEL version)
- Pocket size 1.4"(W) x 4.1"(H) x 0.8"(D)
- Light weight 3.5 ounces
- Audible / visual / vibration alarms
- Special low temp H₂S version operates at -40°C
- Automatic backlight during alarm
- Peak Hold, STEL & TWA
- Low battery alarm
- Impact and water resistant
- Intrinsically safe, CSA, C / US classified
- 2 year warranty

Applications

- Hazardous Material
- Mining
- Refineries / Petrochemical
- Water / Wastewater Treatment
- Pharmaceuticals
- Utilities
- Chemical Plants
- Fire Services

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, HS-01 and HS-01S models are personal 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.

The entire 01 Series monitors are safe for use in hazardous locations, classified as intrinsically safe by CSA to U.S. and Canadian standards for Class I, Division 1, Groups A, B, C, and D atmospheres. For additional information please visit our web site at www.rkiinstruments.com.

01 Series

Model Name	OX-01		CO-01		HS-01	HS-01S		GP-01	
Gas Detected	Oxygen (O ₂)		Carbon Monoxide (CO)		Hydrogen Sulfide (H ₂ S)			Combustible gas	
Detection Principle	Galvanic cell		Electro chemical				Catalytic combustion		
Detection Range (Increments)	0 – 40%vol. (0.1% vol.)		0 – 500 ppm (1 ppm)		0 – 100 ppm (0.5 ppm)			0 – 100% LEL (1% LEL increments)	
Alarm Set Points	Low High Over	19.5% vol. 23.5% vol. 40.0% vol.	1st 2nd TWA STEL Over	25 ppm 50 ppm 25 ppm 200 ppm 500 ppm	1st 2nd TWA STEL Over	10.0 ppm 30.0 ppm 10.0 ppm 15.0 ppm 100.0 ppm		1st 2nd Over	10% LEL 50% LEL 100% LEL
Alarm Types	Gas alarms: Trouble alarms:		1st and 2nd (user adjustable), OVER alarm, STEL and TWA Sensor connection, low battery circuit failure, and calibration range error						
Alarm Methods	Gas alarm: Trouble alarm: STEL & TWA alarms:		Flashing LED's, intermittent buzzer, flashing gas value, and vibration Flashing LED's, intermittent buzzer, and display of error message Flashing LED's, intermittent buzzer, flashing gas value, and vibration						
Gas Sampling	Diffusion								
Response Time	T90 in 20 seconds (Alarms within 5 seconds when exposed to 12% O2)		T90 in 30 seconds						
Accuracy	+/- 0.5% vol.		+/- 5 ppm (up to 150 ppm)		+/- 1.5 ppm (up to 30 ppm)			+/- 5% of full scale	
Power	Alkaline dry cell (2-AAA size)							Alkaline dry cell Ni-Cad battery pack	
Continuous Operation	Alkaline dry cell: more than 3,000 hours (at 25°C, no backlight)					1,500 hours at -40°C		Alkaline: 16 hours Ni-Cad: 8 hours	
Safety Rating	CSA classified, “C / US”, as intrinsically safe. Class I, Division 1, Groups A, B, C, D								
Dimensions & Weight	1.4”W x 4.1”H x 0.8”D, (35 x 105 x 20mm); 3.5 ounces (100g)								
Display	7-segment + symbol on digital LCD, auto backlighting during alarm								
Operating Temp. & Humidity	-4°F ~ 122°F (-20°C ~ 50°C); Humidity below 90% RH (non-condensing)					-40°F ~ 122°F (-40°C ~ 50°C) Humidity below 90% RH (non-condensing)		-4°F ~ 122°F (-20°C ~ 50°C); Humidity below 90% RH (non-condensing)	
Standard Accessories	• Rubber protective boots • Alkaline batteries				• Belt clip or alligator clip • Wrist strap				
Optional Accessories	• Calibration cap (adapter) • Calibration kit				• Charger unit • Ni-Cad battery pack				
Special Functions	• Manual backlight for LCD (automatically lit during alarm) • Peak hold, STEL & TWA								
Warranty	Two years material & workmanship								

*Specifications subject to change without notice.

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World Leader In Gas Detection & Sensor Technology



Authorized Distributor:



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SINGLE GAS CLIP-ON PERSONAL MONITOR

Gas Detection For Life

03 Series



Features

- Operates 3,000 hours on alkaline (GP-03 operates 35 or 30 hrs on alkaline/Ni-MH)
- Pocket size 2.1"(W) x 2.6"(H) x 0.9"(D)
- Light weight 2.8 ounces
- Impact, dust, and water resistant (IP-67)
- Replaceable rubber boot
- Data log 5 to 300 hours with adjustable intervals
- Audible / visual / vibration alarms
- Automatic backlight
- Peak Hold, STEL & TWA
- Low battery alarm
- Intrinsically safe, ATEX, & CSA
- 3 Year warranty H₂S & CO
- 2 Year warranty LEL & O₂

Applications

- Hazardous material
- Mining
- Refineries / petrochemical
- Water / wastewater treatment
- Pharmaceuticals
- Utilities
- Chemical plants
- Fire services





Individuals need personal protection in hazardous areas at all times without adding extra bulky equipment, and the 03 Series can provide that kind of protection at an affordable price. The GP-03, OX-03, CO-03, and HS-03 models are personal single gas monitors designed for protection from exposure to combustible hydrocarbons, oxygen deficiency, hydrogen sulfide, or carbon monoxide.

The O₂, CO, and H₂S versions can be operated continuously for at least 3,000 hours on (2) AAA size alkaline batteries. The GP-03 operates for 35 hours on alkaline and 30 hours on rechargeable Ni-MH. The 03 models have 2 preset alarms that are user adjustable. Each version is also equipped with visual, audible, and vibration alarms as standard.

The replacement sensors are inexpensive, easily field replaceable, and are interchangeable with other popular RKI instruments like the GX-2009, GX-2012, and GasWatch 2. Sensors for LEL and O₂ have a life expectancy of over 2 years. Sensors for H₂S and CO have a life expectancy of over 3 years.

Each 03 Series monitor is impact, dust, and water resistant with an IP-67 rating. 03 Series instruments are safe for use in hazardous locations, classified as intrinsically safe ATEX/IECEx and by CSA approval to U.S. and Canadian standards for Class I, Division 1, Groups A, B, C, and D atmospheres. For additional information please visit our web site at www.rkiinstruments.com.

03 Series

				
Model Name	CO-03	HS-03	OX-03	GP-03
Gas Detected	Carbon Monoxide (CO)	Hydrogen Sulfide (H2S)	Oxygen (O2)	Combustible gas
Detection Principle	Electrochemical		Galvanic cell	Catalytic combustion
Detection Range (Increments)	0 – 500 ppm (1 ppm)	0 – 100 ppm (0.5 ppm)	0 – 40%vol. (0.1% vol.)	0 – 100% LEL (1% LEL increments)
Alarm Set Points	1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm	1st 1.0 ppm 2nd 30.0 ppm TWA 1.0 ppm STEL 5.0 ppm Over 100.0 ppm	Low 19.5% vol. High 23.5% vol. Over 40.0% vol.	1st 10% LEL 2nd 50% LEL Over 100% LEL
Alarm Types	Gas alarms: 1st and 2nd (user adjustable), OVER alarm, STEL and TWA Trouble alarms: Sensor connection, low battery circuit failure, and calibration range error			
Alarm Methods	Gas alarm: Flashing LED's, intermittent buzzer, flashing gas value, and vibration Trouble alarm: Flashing LED's, intermittent buzzer, and display of error message STEL & TWA alarms: Flashing LED's, intermittent buzzer, flashing gas value, and vibration			
Gas Sampling	Diffusion			
Response Time	T90 in 30 seconds		T90 in 20 seconds (Alarms within 5 seconds when exposed to 12% O2)	T90 in 30 seconds
Accuracy which ever is greater	± 5% of reading or ± 5 ppm CO	± 5% of reading or ± 2 ppm H2S	± 0.5% O2	± 0.5% of reading or ± 2% LEL
Data Logging	10 second intervals = 5 hours, 5 minute intervals = 150 hours, 10 minute intervals = 300 hours Instrument records alarms, alarm trends, gas readings, calibration & bump test history, instrument information and settings.			
Battery Options	Alkaline dry cell (2-AAA size)			Alkaline dry cell (2-AAA size) Ni-MH battery
Continuous Operation	Alkaline dry cell: more than 3,000 hours (at 25°C, no backlight)			Alkaline: 35 hours Ni-MH: 30 hours
Safety Rating	ATEX/IECEx approved. CSA classified, "C/US", as intrinsically safe, Class I, Division 1, Groups A, B, C, D			
Enclosure	Dust and water resistant with IP-67 rating			
Dimensions & Weight	2.1" W x 2.64" H x 0.94" D, (54 x 67 x 24 mm); 2.8 ounces (80 g)			
Display	Digital LCD, gas name & concentration, auto backlighting during alarm, operation icon, battery icon			
Operating Temp. & Humidity	-4°F ~ 122°F (-20°C ~ 50°C); Humidity below 90% RH (non-condensing)			
Standard Accessories	• Rubber protective boot • Alkaline batteries • Alligator clip • Data logging software			
Optional Accessories	• Calibration cap • Calibration kit • Charger unit • Belt clip • Wrist strap • Data logging download cable • Calibration station (available 2015)			
Special Functions	• Manual backlight for LCD (automatically lit during alarm) • Peak hold, STEL & TWA			
Warranty	3 Year warranty*		2 Year warranty	

*3 year warranty covers instrument and original sensor. Replacement sensors have a 2 year warranty. Specifications subject to change without notice.



Authorized Distributor:







Sales & Service: 866-657-3777, www.repss.com



Calibration Equipment

Gas Detection For Life

Calibration Kits

Diffusion Instruments		Sample Draw Instruments	
Small Kit	<div>Fixed flow regulators</div> <div>2 Cylinder Case</div> <div></div> <div>34AL 34L Tubing GX-2009 Cal Cup 81-1117RK Cal Cup</div>	<div>Demand flow regulators</div> <div>2 Cylinder Case</div> <div></div> <div>34AL 34L Tubing</div>	
	<div>Fixed flow regulator</div> <div>3 cylinder case</div> <div>2 cylinder case</div> <div></div> <div>58AL 103L Tubing GX-2009 Cal Cup 81-1117RK Cal Cup</div>	<div>Demand flow regulator</div> <div>3 cylinder case</div> <div>2 cylinder case</div> <div></div> <div>58AL 103L Tubing</div>	
Portable Models	GX-2009, -01 Series, GasWatch 2, SC-01, GX-2001		GX-2012, Gas Tracer, Eagle 2, Eagle, RX-415/-515/-516/-517
Fixed System Models	Direct Connect Sensors, S2, M2, GD-A8/ GD-A8V, GD-K8A, PS 2, M Series, OX-500, CO-500		GD-70D, GD-K71D, 35-3000 and 35-3001 Series

Calibration Equipment

								
Reg. Part #	81-1001RK	81-1050RK	81-1050RK	81-1051RK	81-1054RK	20-0110RK-01	20-0121RK	20-0114RK-02
 17 Liter steel	•	•	•			•		
 34 Liter Aluminum				•	•	•	•	•
 58 Liter steel				•	•	•	•	•
 58 Liter Aluminum				•	•		•	•
 103 Liter Steel				•	•		•	•

Specifications subject to change without notice.

Made in the USA



Authorized Distributor:



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DOCKING AND CALIBRATION STATION

Gas Detection For Life

Data Cal 2000



Features

- Automated instrument management
- Calibrations, bump tests, and data downloads automatically performed and archived
- Manage instruments and archive records by serial #, user ID, or station ID
- Services are automatic, on-demand, or custom intervals
- Each docking module equipped with built-in flow control and status indicators
- Approaching and past due service prompts
- Automatic quick charge in 90 minutes or less
- Alkaline recognition
- Single exhaust line for all instruments
- 5 Inlet ports for separate gas mixtures
- Create and save a list of common gas mixtures
- Automatic tracking of cylinder expiration
- Save factory and user default configurations for uploading to instruments
- Password protect configuration controls
- Records are easily exportable as CSV data
- Software is Windows 98, NT, 2000, XP, Vista, and Windows 7 (32 bit) compatible
- Operates on any Pentium II or higher PC

The RKI Data Cal 2000 Docking and Calibration Station is a comprehensive instrument management system which provides charging, downloading, calibration, bump testing, and configuration for our Model GX-2009 and GX-2003 gas detection instruments. The system has configuration capabilities for alarm setting, datalog and calibration interval, user and location ID, and many other instrument parameters. Factory and user default settings are available for upload to instruments. The Data Cal 2000 is supplied with PC software, power and serial cords, and operating instructions. The Data Cal 2000 power requirements are 115VAC, 50/60Hz. PC or laptop to be supplied by customer.

Ordering Information	
Station & Modules	
81-DC2000	Data Cal 2000 docking station, includes station, power cord, serial cable, and PC software CD
81-DC2000-01	Data Cal 2000 docking station, includes station, power cord, serial cable, PC software CD, 58L cylinder H2S/CO/LEL/O2, and demand flow regulator
81-DC2000-02	Data Cal 2000 docking station, includes station, power cord, serial cable, PC software CD, and demand flow regulator (order cylinder separately)
81-DM2003	Docking module for GX-2003, includes station, power cord, serial cable, & PC software CD
81-DM2009	Docking module for GX-2009, includes station, power cord, serial cable, PC software CD, demand flow regulator, & cyl. of calibration gas
Calibration Gases & Regulators	
81-0154RK-02	LEL CH4/O2/CO/H2S, 58L
81-0155RK-02	LEL Hexane/O2/CO/H2S, 58L
81-0090RK-03	LEL CH4/O2/CO, 103L
81-0089RK-03	LEL Hexane/O2/CO, 103L
81-0013RK-05	50% Vol. CH4, 58L
81-0151RK-02	H2S/N2, 58L
81-0078RK-03	100% N2, 103L
81-1054RK	Demand Flow Regulator

*Specifications subject to change without notice.

No.	Serial No.	Station ID	User ID	Model	Date Time	Judge
0002	863020235	*	*	GX-2003	8/2/2010 9:54:26 AM	PASS
0003	863020235	*	*	GX-2003	8/2/2010 10:34:28 AM	PASS
0004	863020235	*	*	GX-2003	8/2/2010 10:44:46 AM	PASS
0005	863020235	*	*	GX-2003	8/20/2010 5:37:56 PM	PASS
0006	863020235	*	*	GX-2003	8/20/2010 5:38:18 PM	PASS
0007	863020235	*	*	GX-2003	8/20/2010 5:38:45 PM	PASS
0008	863020235	*	*	GX-2003	8/20/2010 5:40:01 PM	PASS
0009	863020235	*	*	GX-2003	8/20/2010 5:40:24 PM	PASS
0010	863020235	*	*	GX-2003	8/26/2010 4:27:19 PM	PASS
0011	863020235	*	*	GX-2003	8/26/2010 4:27:22 PM	PASS
0012	863020235	*	*	GX-2003	8/26/2010 4:37:14 PM	PASS
0013	863020235	*	*	GX-2003	8/26/2010 4:37:55 PM	PASS
0014	863020235	*	*	GX-2003	8/26/2010 4:38:23 PM	PASS
0015	863020235	*	*	GX-2003	8/26/2010 4:40:03 PM	PASS
0016	863020235	*	*	GX-2003	8/26/2010 4:40:45 PM	PASS
0017	863020235	*	*	GX-2003	8/26/2010 5:14:22 PM	PASS
0018	863020235	*	*	GX-2003	8/26/2010 5:14:29 PM	PASS
0019	863020235	*	*	GX-2003	8/26/2010 5:14:51 PM	FAIL
0020	863020235	*	*	GX-2003	8/26/2010 5:16:06 PM	PASS
0021	863030136	GUYMON STA	JERRY M	GX-2003	8/23/2010 9:59:27 AM	PASS

Data Cal 2000 Specifications	
Input Power	115 VAC, 50/60 Hz
Environmental Conditions	<ul style="list-style-type: none"> For indoor use only -10° C to 40° C, below 80% Relative Humidity, Non Condensing
Number of Docking Modules	Up to 10
Applicable Instruments	<ul style="list-style-type: none"> GX-2009 GX-2003
Number of Calibration Gas Cylinders	Up to 5 Calibration gas cylinders and one zero air cylinder



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



ONE TO SIX GAS PORTABLE MONITOR

Gas Detection For Life

EAGLE™ Model



Features

- Simultaneous detection of up to 6 different gases
- Over 400 gas monitoring configurations
- Wide range of toxic gases
- PPM / LEL hydrocarbon detection
- Powerful long-life pump up to 125' range with filters
- Low flow pump shut off and alarm
- Methane elimination switch for environmental use
- Security "Adjustment Lockout Switch"
- Up to 30 hours of continuous operation
- Alkaline or Ni-Cad capability
- IR Sensors available for CO₂, % LEL CH₄ or HC, % volume CH₄ or HC
- Transformer testing version available
- Datalogging option
- Autocalibration / single gas calibration
- Dual hydrophobic filters (most versions)
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, CSA (C / US) & UL classified (most versions)
- Complies with EPA Method 21

RKI is proud to offer the most versatile portable gas detector on the market. Equipped with features that are not available on most competitive units, the EAGLE is a powerful instrument that does more than just offer the standard confined space protection for LEL, O₂, H₂S and CO. Detection combinations never before offered in a portable gas monitor are now available featuring the industry's widest selection of high quality, long life and field proven sensors.

Unique EAGLE features include PPM or LEL hydrocarbon detection at the push of a button; infrared sensors for CO₂, methane or hydrocarbons in LEL and % volume ranges; a methane elimination switch for environmental applications, a long list of super toxic gases and measurable ranges, and dual hydrophobic filters that increases its water resistant performance. The EAGLE has a strong internal pump with a low flow auto shut off and alarm, which can draw samples from up to 125 feet even with the dual hydrophobic filters in place. This allows for quick response and recovery from distant sampling locations. The EAGLE will continuously operate for over 30 hours on alkaline batteries or 18 hours on Ni-Cads. A variety of accessories are also available to help satisfy almost any application such as long sample hoses, special float probes for tank testing, datalogging, continuous operation adapters, remote alarms and strobes, and dilution fittings, just to name a few.

With its ergonomic design and large glove friendly buttons, the EAGLE offers easy access to controls such as autocalibration, alarm silence, demand zero, peak hold and a wide variety of other features. Each channel has two alarm levels plus TWA and STEL alarms for toxic channels. The two alarm levels are user adjustable and can be latching or self resetting. Rugged, reliable, easy to operate and maintain, the EAGLE is the solution for just about any portable gas monitoring situation.

EAGLE™ Model

Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-polyester blend. Can operate in rain or set into 2.0" of water without damage. Ergonomically balanced with rugged top mounted handle.
Dimensions	10.5" L x 5.9" W x 7" H
Weight	5 lbs (standard 4 gas with batteries)
Detection Principle	Catalytic combustion, electrochemical cell, galvanic cell, infrared.
Sensor Life	2 years under normal conditions.
Sampling Method	Powerful, long-life pump (over 6,000 hours) can draw samples over 125 feet. Flow rate approximately 2.0 SCFH.
Display	4 x 20 LCD readout. Viewed through window in case top. Displays readings & status of 4 channels simultaneously. Backlight, automatic for alarms and by demand with adjustable time.
Alarms	2 alarms per channel plus TWA and STEL alarms for toxics. The two alarms are fully adjustable for levels, latching or self reset and silenceable.
Alarm Method	Buzzer 85 dB at 30 cm, dual high intensity LED's, and flashing display.
Controls	6 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL / ppm, alarm silence, peak hold, TWA / STEL values battery status and many other features.
Continuous Operation	30 Hrs min. using alkaline batteries, or 18 hrs using Ni-Cad.
Power Source	4 Alkaline or Ni-Cad, size D batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	-10°C to 40°C (14°F to 104°F), 0 to 95% RH, non-condensing.
Response Time	30 Seconds to 90% (most gases) using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Division 1, Groups A, B, C, D. CSA (C / US) and UL classified (most versions).
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe and 5 foot hose, Internal hydrophobic filter (most versions) (certain toxic versions equipped with special probe, inlet fitting and 3' teflon hose. For HF and O3 versions, 3' PTFE hose used without probe).
Optional Accessories	<ul style="list-style-type: none"> Datalogging of up to 4 gases (No datalogging possible on 5 or 6 gas versions or versions with more than 2 toxic sensors) Remote alarms Dilution fitting (50/50) Ni-Cad batteries Battery charger, 115 VAC, 220 VAC, or 12 VDC Continuous operation adapter, 115 VAC or 12 VDC Extra loud buzzer Extension probes Large internal hydrophobic filter
Warranty	Two year material and workmanship

Gas	Measuring Range	Accuracy * Which ever is greater
Gases & Detectable Ranges		
Standard Confined Space Gases		
Hydrocarbons (CH ₄ , std)	0 - 100% LEL	± 5% of reading or ± 2% LEL (*)
	0 - 50,000 ppm	± 50 ppm or ± 5% of reading (*)
Oxygen (O ₂)	0 - 40% Vol.	± 0.5% O2
Carbon Monoxide (CO)	0 - 500 ppm	± 5% of reading or ± 5 ppm CO (*)
Hydrogen Sulfide (H ₂ S)	0 - 100 ppm	± 5% of reading or ± 2 ppm H2S (*)
Super Toxics and Other Gases		
Ammonia (NH ₃)	0 - 75 ppm	± 10% of reading or ± 5% of full scale (*)
Arsine (AsH ₃)	0 - 1 ppm 0 - 200 ppb	
Chlorine (Cl ₂)	0 - 3 ppm	
Chlorine Dioxide (ClO ₂)	0 - 1 ppm	
Fluorine (F ₂)	0 - 5 ppm	
Hydrogen Fluoride (HF)	0 - 9 ppm	
Hydrogen Chloride (HCl)	0 - 15 ppm	
Hydrogen Cyanide (HCN)	0 - 30 ppm	
Hydrogen Selenide (H ₂ Se)	0 - 0.2 ppm	
Hydrogen Sulfide (H ₂ S)	0 - 1 ppm 0 - 30 ppm	
Nitrogen Dioxide (NO ₂)	0 - 15 ppm	
Ozone (O ₃)	0 - 1 ppm	
Nitric Oxide (NO)	0 - 100 ppm	
Phosphine (PH ₃)	0 - 1 ppm	
Silane (SiH ₄)	0 - 15 ppm	
Sulfur Dioxide (SO ₂)	0 - 6 ppm	
IR Sensors		
Carbon Dioxide (CO ₂) (IR Sensor)	0 - 5,000 ppm 0 - 10,000 ppm 0 - 5% Vol. 0 - 20% Vol. 0 - 60% Vol.	± 5% of reading or ± 2% of full scale (*)
Methane (CH ₄) (IR Sensor)	0 - 100% LEL 0 - 100% Vol.	
Isobutane (iC ₄ H ₁₀) (IR Sensor)	0 - 100% LEL 0 - 30% Vol.	

Specifications subject to change without notice.



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



TRANSFORMER GAS TESTER

Gas Detection For Life

EAGLE™ Model



Features

- Simultaneous detection of hydrogen and oxygen
- PPM / LEL hydrocarbon detection
- Powerful long-life pump
- Low flow pump shut off and alarm
- Built-in two pump dilution system for LEL measurement in inert atmospheres
- Security “Adjustment Lockout Switch”
- Up to 20 hours of continuous operation
- Alkaline or Ni-Cad capability
- Autocalibration / single gas calibration
- Internal filters, oil mist, hydrophobic, & particulate
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, intended for Class I Division 2 hazardous locations

RKI is proud to offer this version of our Eagle portable gas detector. The Eagle Transformer Gas Tester is capable of detection of flammable gases and vapors in inerted environments, using a unique two-pump dilution sample system. This allows uses of a catalytic bead (pellistor) type sensor for LEL detection of virtually all flammable gases and vapors, including hydrogen. The two pump design gives the Eagle the capability of sampling from a positive or negative pressure transformer.

Other unique EAGLE features include PPM or LEL hydrocarbon detection at the push of a button. The EAGLE has a strong internal pump with a low flow auto shut off and alarm. This allows for quick response and recovery from distant sampling locations. It also includes a second pump to provide dilution air for the LEL sensor, with the two pump approach helping to compensate for changes in sample. The EAGLE will continuously operate for over 20 hours on alkaline batteries or 12 hours on Ni-Cads.

With its ergonomic design and large glove friendly buttons, the EAGLE offers easy access to controls such as autocalibration, alarm silence, demand zero, peak hold and a wide variety of other features. Each channel has two alarm levels. The two alarm levels are user adjustable and can be latching or self resetting. Rugged, reliable, easy to operate and maintain, the EAGLE is the solution for just about any portable gas monitoring situation where inerted environments must be tested.



EAGLE™ Model

Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-polyester blend. Can operate in rain or set into 2.0" of water without damage. Ergonomically balanced with rugged top mounted handle.
Dimensions	10.5" L x 5.9" W x 7" H
Weight	5 lbs
Detection Principle	Catalytic combustion, galvanic cell (O ₂)
Sensor Life	2 years under normal conditions.
Sampling Method	Two powerful, long-life pumps (over 6,000 hours) can draw samples directly from transformers, whether at positive or negative pressure.
Display	4 x 20 LCD readout. Viewed through window in case top. Displays readings & status of 4 channels simultaneously. Backlight, automatic for alarms and by demand with adjustable time.
Alarms	2 alarms per channel. The two alarms are fully adjustable for levels, latching or self reset and silenceable.
Alarm Method	Buzzer 85 dB at 30 cm, dual high intensity LED's, and flashing display.
Controls	6 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL / ppm, alarm silence, peak hold, battery status and many other features.
Continuous Operation	20 Hrs min. using alkaline batteries, or 12 hrs using Ni-Cad.
Power Source	4 Alkaline or Ni-Cad, size D batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	-10°C to 40°C (14°F to 104°F), 0 to 95% RH, non-condensing.
Response Time	30 Seconds to 90%.
Safety Rating	Intrinsically safe design, intended for Class I Division 2 hazardous locations. (No third party approval).
Standard Accessories	Shoulder strap, alkaline batteries, Internal hydrophobic filter.
Optional Accessories	<ul style="list-style-type: none"> Ni-Cad batteries Battery charger, 115 VAC, 220 VAC, or 12 VDC Continuous operation adapter, 115 VAC or 12 VDC Extra loud buzzer
Warranty	Two year material and workmanship.

Gases & Detectable Ranges		
Gas	Measuring Range	Accuracy * Which ever is greater
Hydrocarbons (H ₂ , std)	0 - 100% LEL	± 5% of reading or ± 2% LEL (*)
	0 - 50,000 ppm	± 50 ppm or ± 10% of reading (*)
Oxygen (O ₂)	0 - 40% Vol.	± 0.5% O ₂

Ordering Information	
Single Gas H ₂ Eagle	
EAGLE for Hydrogen (H ₂), 0 - 5% volume with 2 pumps for transformer testing	72-5101RK-TRB
Calibration kit, EAGLE, 103L cylinder of 50% LEL Hydrogen/Air, demand flow regulator, case & tubing	81-5101RK-H2
Dual Gas H ₂ /O ₂ Eagle	
EAGLE for H ₂ (0 - 5%) / O ₂ , with 2 pumps for transformer gas testing	72-5201RK-TRB
Calibration kit, EAGLE, 103L cylinder of 50% LEL H ₂ /Air, 103L cylinder of 100% N ₂ , demand flow regulator, case & tubing	81-5201RKTR1
Cal kit, EAGLE, 34L cylinder 50% LEL H ₂ /Air, 34L cyl 100% N ₂ , dispensing valve, gas bag, case & tubing	81-5201RKTR1-LV



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



ONE TO SIX GAS PORTABLE MONITOR

Gas Detection For Life

EAGLE 2 Model



Features

- **Monitor up to 6 different gases**
- **PPM, % LEL, or % Vol. auto-ranging combustible detection**
- **Specialty Sensors**
 - **PID (Photoionization Detector)**
 - Low or high range for VOC detection
 - Fence Electrode Technology for humidity and contamination resistance
 - **Infrared (IR)**
 - CO₂, % LEL CH₄, % Vol. CH₄, % LEL HC, % Vol. HC
 - **Thermal Conductivity (TC)**
 - % Vol. H₂, % Vol. CH₄
 - **Smart toxic, plug and play sensors**
 - NH₃, AsH₃, Cl₂, HCN, PH₃, & SO₂
- **Multilingual (5 languages)**
- **Powerful long-life pump up to 125' range**
- **Low flow pump shut off and alarm**
- **Methane elimination for environmental use**
- **Alkaline 18 hours or NiMH 20 hours capability**
- **Password protection**
- **Datalogging standard**
- **Autocalibration / single gas calibration**
- **Internal hydrophobic dust filter**
- **External probe with hydrophobic filter**
- **Ergonomic RFI / EMI / chemical / weather resistant enclosure**
- **Intrinsically safe design, CSA approval**

RKI is proud to offer the next generation of our popular EAGLE portable gas detector. Equipped with features that are not available on competitive units, the EAGLE 2 is a powerful instrument that does more than just offer the standard confined space protection for LEL, O₂, H₂S and CO.

The EAGLE 2 available features include a PID sensor for detecting high or low ppm levels (0-50 & 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. This allows for quick response and recovery from distant sampling locations. The EAGLE 2 will continuously operate for over 18 hours on alkaline batteries or 20 hours on NiMH. A variety of accessories are also available to help satisfy almost any application such as long sample hoses, special float probes for tank testing, and dilution fittings, just to name a few. Datalogging is a standard feature for all sensors on all versions.

With its ergonomic design and large glove friendly buttons, the EAGLE 2 offers easy access to controls such as autocalibration, alarm silence, demand zero, peak hold, methane elimination, and a wide variety of other features. Each channel has two alarm levels plus TWA and STEL alarms for toxic channels. The two alarm levels are user adjustable and can be latching or self resetting. Rugged, reliable, easy to operate and maintain, the EAGLE 2 is the solution for just about any portable gas monitoring situation. Also, the display can be set to any of 5 languages: English, French, German, Italian, or Spanish.

EAGLE 2 Model

Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-PBT blend. Can operate in 2.0" of water without leakage. Ergonomically balanced with rugged top mounted handle. Water & dust resistant equivalent to IP64.
Dimensions	9.5" L x 5.25" W x 5.875" H
Weight	3.8 Lbs (standard 4 gas with batteries).
Detection Principle	Catalytic combustion, electrochemical cell, galvanic cell, infrared, Photoionization detector, and thermal conductivity.
Sampling Method	Powerful, long-life internal pump (over 6,000 hours) can draw samples over 125 feet. Flow rate approximately 2.0 SCFH.
Display	3 display modes: display all gases, large font-autoscroll, or large font-manual scroll. Polyurethane protected overlay. Backlight, illuminates for alarms and by demand, with adjustable time.
Language	Readout can display in 5 languages (English, French, German, Italian, or Spanish).
Alarms	2 Alarms per channel plus TWA and STEL alarms for toxics. The two alarms are fully adjustable for levels, latching or self reset, and silenceable.
Alarm Method	Buzzer 95 dB at 30 cm, four high intensity LED's.
Controls	4 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL/ppm, alarm silence, peak hold, TWA/STEL values, battery status, conversion factors, and many other features.
Continuous Operation	At 70°F, 18 hours using alkaline batteries, or 20 hours using NiMH.
Power Source	4 alkaline or NiMH, size C batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	-20°C to 50°C (-4°F to 122°F), 0 to 95% RH, non-condensing.
Environmental	IP-64
Response Time	30 Seconds to 90% (for most gases) using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Groups A, B, C, D. Approvals: CSA / CE
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe, and 5 foot hose, internal hydrophobic filter.
Optional Accessories	<ul style="list-style-type: none"> Dilution fitting (50/50) NiMH batteries Battery charger, 115 VAC, 220 VAC, or 12 VDC (charge time 4 hours) Continuous operation adapter, 115 VAC or 12 VDC Extension hoses
Warranty	Two year material and workmanship, one year for PID sensor.

Gas	Measuring Range	Accuracy * Which ever is greater
Gases & Detectable Ranges		
Standard Confined Space Gases		
Hydrocarbons (CH ₄ , std)	0 - 100% LEL	± 5% of reading or ± 2% LEL (*)
	0 - 5% Vol. (CH ₄)	
	0 - 50,000 ppm	± 50 ppm or ± 5% of reading (*)
Oxygen (O ₂)	0 - 40% Vol.	± 0.5% O2
Carbon Monoxide (CO)	0 - 500 ppm	± 5% of reading or ± 5 ppm CO (*)
Hydrogen Sulfide (H ₂ S)	0 - 100 ppm	± 5% of reading or ± 2 ppm H2S (*)
Toxics		
Ammonia (NH ₃)	0 - 75 ppm	± 10% of reading or ± 5% of full scale (*)
Arsine (AsH ₃)	0 - 1.5 ppm	
Chlorine (Cl ₂)	0 - 3 ppm	
Hydrogen Cyanide (HCN)	0 - 15 ppm	
Phosphine (PH ₃)	0 - 1 ppm	
Sulfur Dioxide (SO ₂)	0 - 6 ppm	
IR Sensors		
Carbon Dioxide (CO ₂)	0 - 10,000 ppm 0 - 5% Vol. 0 - 60% Vol.	± 5% of reading or ± 2% of full scale (*)
Methane (CH ₄)	0 - 100% LEL/ 0 - 100% Vol.	
Hydrocarbons	0 - 100% LEL/ 0 - 30% Vol.	
PID Sensors		
VOC	0 - 2,000 ppm 0 - 50 ppm	—
TC Sensors		
Methane (CH ₄)	0 - 100% Vol.	± 5% of reading or ± 2% of full scale (*)
Hydrogen (H ₂)	0 - 10% Vol. 0 - 100% Vol.	

The EAGLE 2 can be configured with up to 6 gas sensors from the above list.

Specifications subject to change without notice.

Made in the USA



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com

Marine Tank Tester Gas Monitor



Marine Tank Tester

- Meets ship class/rule requirements
- Monitor up to 6 different gases
- Powerful pump up to 125' (38m) (non PID versions)
- PPM, %LEL, %Vol. auto ranging
- VOC monitoring
- ABS, CSA, CE approved
- Intrinsically safe design



RKI is proud to offer the next generation of our popular EAGLE portable gas detector. Equipped with features that are not available on competitive units, the EAGLE 2 is one of the most suitable portable gas detectors for ship applications.

Applications:

- HC/O₂ gas detector in air & in inert background by IMO/ship class.
- Portable gas detector by IMO coal carrier application with CH₄ sensor for air and inert background.
- Pump room monitoring detector by OCIMF/ISGOTT.
- Benzene vapor monitoring by IMO/OCIMF.
- Suitable gas detector by the changed BC Code (IMSBC Code, International Maritime Solid Bulk Cargoes Code, since January 01, 2011).



SPECIFICATIONS

Eagle 2 portable gas detector was developed to meet the following marine requirements:

- Easy to handle (Field friendly design)
- Heavy duty case
- Long sensor lifetime
- Easy to maintain
- Powerful sampling pump (up to 125ft, 38m)



Approvals:



Specifications:	
Enclosure	Weather and chemical resistant. RFI/EMI coated high impact polycarbonate-PBT blend. Can operate in 2.0" of water without leakage. Ergonomically balanced with rugged top mounted handle. Water & dust resistant equivalent to IP-64.
Dimensions	9.5"L x 5.25"W x 5.875"H (L241 x W133 x H149mm).
Weight	3.8Lbs (1.72kg, standard 4 gases with batteries)
Detection Principle	Catalytic combustion, electrochemical cell, galvanic cell, infrared, Photoionization detector, and thermal conductivity.
Sampling Method	Powerful, long-life internal pump (over 6,000 hours) can draw samples over 125ft (38m). Flow rate approximately 2.0SCFH (1.0 lpm).
Display	3 display modes: display all gases, Large font-autoscroll, or large font- manual scroll. Polyurethane protected overlay. Backlight, illuminates for alarms and by demand, with adjustable time.
Language	Readout can display in 5 languages (English, French, German, Italian, or Spanish)
Alarms	2 Alarms per channel plus TWA and STEL alarms for toxics. The two alarms are fully adjustable for levels, latching or self reset, and silenceable.
Alarm Method	Buzzer 95dB at 30cm, four high intensity LED's.
Controls	4 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL/ppm, alarm silence, peak hold, TWA/STEL values, battery status, conversion factors, and many other features.
Continuous Operation	At 70°F (21°C), 18 hours using alkaline batteries, or 20 hours using Ni-MH.
Power Source	4 alkaline or Ni-MH C size batteries.
Operating Temp & Humidity	-20°C ~ 50°C (-4°F~122°F), 0~95%RH (non-condensing).
Indication Accuracy	Maximum variance ±5% of full scale.
Response Time	30 seconds to 90% (for most gases) using standard 5 ft (1.5m) hose.
Safety Rating	Intrinsically Safe, Class 1, Group A,B,C,D. Approval: CSA/CE.
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe, 5ft (1.5m) hose.
Optional Accessories	<ul style="list-style-type: none"> • Dilution fitting (50:50) • Ni-MH batteries • Battery charger, 100-240VAC, or 12VDC (charge time 4 hours) with continuous operation function, 115VAC or 12VDC • Extension hoses

Specifications subject to change without notice.



ORDER INFORMATION

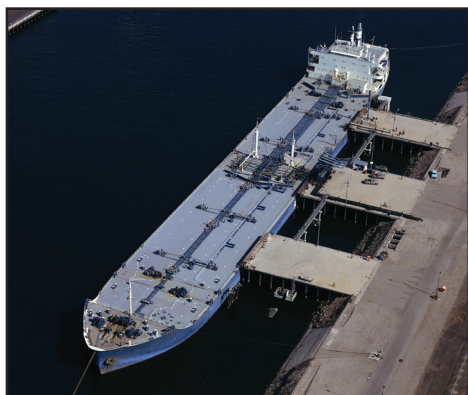
* All LEL and PPM sensor choose one of the following calibrations when ordering Isobutane (for HC) / Methane (standard calibration) Hydrogen H2.

NOTE: Other gas combinations are possible. Please contact RKI Instruments or your authorized distributor.

Instruments	
721-001	EAGLE 2 for LEL & PPM *
721-002-M	Eagle 2 for O2 (0-40%), with internal oil mist filter.
721-005	Eagle 2 for SO2 (0-6 ppm)
721-007	Eagle 2 for AsH3 (0-1.5 ppm)
721-008	Eagle 2 for PH3 (0-1.0 ppm)
721-021	Eagle 2 for HC (0-100% LEL/ 0-30% VOL. auto range IR)
721-101-P1	Eagle 2 for VOC's (0-50 ppm, PID)
722-001-D	Eagle 2 (LEL and ppm)/O2 (0-40%) with dilution fitting
722-005	Eagle 2 for O2 (0-40%)/H2S (0-100 ppm)
722-010	Eagle 2 (LEL and ppm)/NH3 (0-75 ppm)
722-060	Eagle 2 (LEL and ppm)/PH3 (0-1.0 ppm)
722-062	Eagle 2 (LEL and ppm)/AsH3 (0-1.5 ppm)
722-068	Eagle 2 for HC (0-100% LEL/ 0-30% VOL. auto range IR)/O2 (0-40%)
723-002	Eagle 2 for CH4 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)
723-032	Eagle 2 for CH4 (IR autorange % LEL % Vol)/O2 (0-40%)/CO (0-500 ppm)
723-054	Eagle 2 for HC (0-100% LEL/ 0-30% VOL. auto range IR)/O2 (0-40%)/H2S (0-100 ppm)
724-001	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/H2S (0-100 ppm)
724-001-D	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/H2S (0-100 ppm) with dilution fitting
724-012	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/NH3 (0-75 ppm)
724-052	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/HCN (0-15 ppm)
724-059-02	Eagle 2 for CH4 (0-100% LEL/ 0-100% VOL, auto range IR)/O2 (0-40%)/CO (0-500 ppm)/CO2 (0-10,000 ppm)
724-059-03	Eagle 2 for CH4 (0-100% LEL/ 0-100% VOL, auto range IR)/O2 (0-40%)/CO (0-500 ppm)/CO2 (0-5%)
724-059-05	Eagle 2 for CH4 (0-100% LEL/ 0-100% VOL, auto range IR)/O2 (0-40%)/CO (0-500 ppm)/CO2 (0-60%)
724-085	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/ASH3 (0-1.5 ppm)
724-101-P1	Eagle 2 (LEL and ppm)/O2 (0-40%)/H2S (0-100 ppm)/VOC's (0-50 ppm, PID)
725-004-02	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/H2S (0-100 ppm)/CO2 (0-10,000 ppm)
725-028	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/NH3 (0-75 ppm)/PH3 (0-1 ppm)
725-115	Eagle 2 (LEL and ppm)/O2 (0-40%)/H2S (0-100 ppm)/HCN (0-15 ppm)/SO2 (0-6 ppm)
726-101-P1	Eagle 2 (LEL and ppm)/O2 (0-40%) H2S (0-100 ppm)/CO (0-500 ppm)/SO2 (0-6 ppm)/VOC's (0-50 ppm, PID)
726-118	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/H2S (0-100 ppm)/SO2 (0-6 ppm)/HCN (0-15 ppm)

ORDER INFORMATION

Instrument Accessories	
49-2175RK-02	Battery charger, 100~240VAC, with 4 C size NI-MH batteries, Eagle 2
80-0101RKE	Floating ball/hose assembly, 25' (8m), with Eagle 2 fitting
80-0405RK	Dilution fitting 50:50
80-0540RK	Sampling hose 40' (12m), polyurethane with Eagle 2 fittings
80-0575RK	Sampling hose 75' (22m), polyurethane with Eagle 2 fittings
80-0599RK	Sampling hose 100' (30m), polyurethane with Eagle 2 fittings
80-0599RK-125	Sampling hose 125' (38m), polyurethane with Eagle 2 fittings
Aluminum Cylinders and Equipment	
81-0151RK-04	H2S 25 ppm in N2 bal. 34AL cylinder
81-0154RK-04	Mixed calibration gas, 34AL cylinder, CH4 50% LEL/ O2 12%/ CO 50 ppm/H2S 25 ppm in N2 bal.
81-0158RK-04	Mixed calibration gas, 34AL cylinder, i-C4H10 50% LEL/O2 12%/CO 50 ppm/H2S 25 ppm in N2 bal.
81-1054RK	Regulator, demand flow for 34AL/58AL/103L
81-1132RK	Sampling bag (1L)
  34 AL Cylinder Regulator for 34AL cylinder	
Steel Cylinders and Equipment	
81-0011RK-01	CH4, 10% VOL in N2 bal. 34L
81-0012RK-01	CH4, 50% LEL in air bal. 34L
81-0018RK-01	i-C4H10, 50% LEL in air bal. 34L
81-0019RK-01	i-C4H10, 10% VOL in N2 bal. 34L
81-0064RK-01	CO, 50 ppm in air bal. 34L
81-0074RK	O2, 2% VOL in N2 bal. 17L
81-0075RK-01	O2, 10% VOL in N2 bal. 34L
81-0078RK-01	N2, 99.999%. 34L cylinder
81-1055RK	Regulator, demand flow for 17L/34L steel cylinders
  34L & 17L Cylinders Regulator for 34/17L cylinder	



RKI Instruments, Inc.

33248 Central Avenue

Union City, CA 94587, USA

Phone: (510) 441-5656 • Fax: (510) 441-5650

www.rkiinstruments.com



Authorized Distributor:



OPTICAL GAS INDICATOR

Model FI-8000



- Max 8 measuring gas range available
- 2 way of sampling method
Pump suction type or Hand aspirating type
- Intermittent measuring mode available
(For pump suction type only)
- Ingress proof rating IP67
Suited for outdoor work.
- Easy-to-read wide LCD display
- Intrinsically safe (ATEX Presafe 14 ATEX 5711)
Explosion proof class Exia IIC T4 Ga



Hand aspirating type

REPSS, Inc | 1656 Townhurst Dr, Suite E, Houston, TX 77043 | Sales & Service 866-657-3777 | www.repss.com

World Leader In Gas Detection & Sensor Technology

RIKEN KEIKI Co., Ltd.

History for Riken optical detectors

Analysis-Scientific
heritage
approved



Riken gas indicator
model 3
(1930)



Riken gas indicator
model 18
(1952)



FI-21
(2001)



FI-8000
(2015)

Digital
display

Automatic
analysis

IP67

Light
weight

Data
Logging

Easy
operation

In early 1930, many of explosion accidents at oil tanker were occurred. To prevent these accidents, a gas detector based on optical interferometric method was developed and Riken Keiki was founded as this product manufacture. The gas detectors were used in a coal mine for safety use throughout the world.

Riken gas indicator model 3 has been distributed to Japanese life as an valuable instrument and approved as a heritage of analytical and scientific instruments by JAIMA and JSIA.

Model FI-8000

You can select the pump suction type or hand aspirating type, and measuring gas in accordance with the requirements.

FI-8000 TYPE □-□□-□□

Suction method
A : Hand-aspirating type P : Pump suction type

Chamber length (※1)
05 : 5mm 24 : 24mm 48 : 48mm

Detection gas (※2)
01 : Anesthetic gas 02 : Fumigation gas 99 : Customized

※1 It differs by measuring gas.
Anesthetic and fumigation : No need to specify
For customized spec, refer the 3rd page.

※2 Refer the last page for anesthetic gas and fumigation gas.
See the 3rd page customized spec.

- ◆ Specify suction method for anesthetic gas spec.

FI-8000 TYPE □-24-01

- ◆ Specify suction method for fumigation spec.

FI-8000 TYPE □-48-02

- ◆ Specify suction method and chamber length for customized spec.

FI-8000 TYPE □-□-99

Measuring gas

1 set of FI-8000 can install maximum 8 kinds of measuring gas range under the same chamber length.

Measuring gas list

<Chamber length : 5mm>

Detection gas	Base gas	Range
Methyl bromide	Air	0~100vol%
Sulfur Hexafluoride	Air	0~100vol%
Sulfur Hexafluoride	Air	0~99.9%up
Sulfur Hexafluoride	N2	0~100vol%
Propane	Air	0~100vol%
Iso-butane	Air	0~100vol%
N-butane	Air	0~100vol%
Flon 22	Air	0~100vol%
Dimethyl Ether	Air	0~100vol%
Dimethyl Ether	N2	0~100vol%
Xenon	Air	0~100vol%
Ethylene	Air	0~100vol%
Chlorine	Air	0~100vol%
Vinyl chloride	N2	0~100vol%

Detection gas	Base gas	Detection gas
Propane	Air	0~101.3 MJ/m ³ Gross 0°C
Butane	Air	0~134.2 MJ/m ³ Gross 0°C
Propane	Air	0~93.15 MJ/m ³ Net 0°C
Butane	Air	0~123.7 MJ/m ³ Net 0°C

<Chamber length : 24mm>

Detection gas	Base gas	Range
Halothane	O2	0~6vol%
Isoflurane	O2	0~8vol%
Sevoflurane	O2	0~10vol%
Desflurane	O2	0~20vol%
Halothane	O2	0~6vol%
Isoflurane	Air	0~8vol%
Sevoflurane	Air	0~10vol%
Desflurane	Air	0~20vol%
Enflurane	Air	0~10vol%
Enflurane	Air	0~10vol%

Detection gas	Base gas	Detection gas
Helium	Air	0~100vol%
Helium	N2	0~100vol%
Helium	Argon	0~100vol%
Hydrogen	Air	0~100vol%
Hydrogen	Air	0~100vol%
Heavy Hydrogen	Air	0~100vol%
Heavy Hydrogen	N2	0~100vol%
Carbon dioxide	Air	0~100vol%
Carbon dioxide	N2	0~100vol%
Carbon dioxide	Argon	0~100vol%
Neon	Air	0~100vol%
Methane	Air	0~100vol%
Methane	Air	0~100vol%
Nitrus Oxide	Air	0~100vol%
Ozone	O2	0~100vol%

Detection gas	Base gas	Range
LNG or LNG +LPG	—	25~50 MJ/m ³ Gross 0°C
LNG or LNG +LPG	—	22~45 MJ/m ³ Net 0°C

<Chamber length : 48mm>

Detection gas	Base gas	Range
Toluene	Air	0~100%LEL
MEK	Air	0~100%LEL
Ethyl acetate	Air	0~100%LEL
Xylene	Air	0~100%LEL
Iso-propyl alcohol	Air	0~100%LEL
M.E.K	Air	0~100%LEL
Methanol	Air	0~100%LEL
Propane	Air	0~100%LEL
Iso-butane	Air	0~100%LEL
Acetone	Air	0~100%LEL
Ethyl alcohol	Air	0~100%LEL
Methane	Air	0~100%LEL
Hydrogen	Air	0~100%LEL
Ethyl chloride	Air	0~100%LEL
Ethylene	Air	0~100%LEL
Styrene	Air	0~100%LEL
Ammonia	Air	0~100%LEL
Tetrahydrofane	Air	0~100%LEL
Dioxolane	Air	0~100%LEL
Methyl-isopropil-Keton	Air	0~100%LEL
Tetrafluoro-propane	Air	0~100%LEL
Butylacetate	Air	0~100%LEL

Detection gas	Base gas	Range
Methyl Bromide	Air	0~200g/m ³
Methyl Iodine	Air	0~200g/m ³
Sulfuryl Fluoride	Air	0~200g/m ³
Methyl Bromide	Air	0~5vol%
Propylene oxide	Air	0~10vol%

Detection gas	Base gas	Range
Ammonia	N2	0~100vol%
Oxygen	N2	0~100vol%

 Detection gas for anaesthetic








 Detection gas for fumigation

Specification

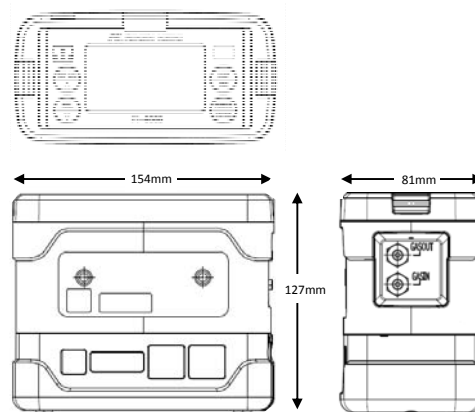
Model	FI-8000	
Measuring principle	Optical interferometric method	
Measuring gas	Refer to the 3 rd page.	
Indication accuracy	Within $\pm 3\%$ (at constant temperature)※	
Type	TYPE P-□□-□□	TYPE A-□□-□□
Sampling method	Pump suction type	Hand-aspirating type
Self-diagnosis function	Low battery, Low light, Low contrast, abnormal atmospheric pressure and abnormal temperature	
Display	LCD digital (7-segment value display + code + 20 segment word x 2 lines)	
Each display	Measuring gas, gas concentration, measuring unit and battery capacity reminder	
Power source	Alkaline battery pack (AA size battery x 3 pcs) (standard) Or, Lithium ion battery(optional)	
Ingress proof rating	IP67 equivalent	
Ambient humidity & temperature	Temperature : -20~50°C, Humidity : Below 95%RH (Non-condensing)	
Dimensions	Approx. 154 (W) × 127 (H) × 81 (D) mm	
Weight	Approx. 1.1kg (including alkaline batteries) Approx. 1.2kg (including lithium ion batteries)	
Explosion proof	Intrinsically safe (Exia II CT4) (ATEX pending)	
Continuous operation	Above 12 hrs (for alkaline battery use) Above 18 hrs (for lithium ion battery use) (25°C with no back light on)	Above 16 hrs (for alkaline battery use) Above 24 hrs (for lithium ion battery use) (25°C with no back light on)
External output	IrDA (for data logging)	
Function	Data logging, atmospheric pressure correction, temp compensation	

※ Indication accuracy subject to the measuring gas.

Accessories

	Common (Anaesthetic/fumigation/customized gas)			Anaesthetic	
Accessories	Gas sampling tube(1m)	Shoulder strap	Hand-aspirator (For TYPE A only)	Absorption tube	Tube Fix belt
					
Optional	Lithium ion battery unit	AC adaptor			
					

Appearance



Sales & Service: 866-657-3777, www.repss.com



FORMALDEHYDE GAS DETECTOR

Gas Detection For Life

Model FP-31



Features

- Simple operation
- Built-in sample draw pump
- Easy to read LCD display
- Self-diagnosis
- Uses photoelectric photometry technology
- Direct digital readout
- Colorimetric detection tablet method
- No false readings from interfering gases
- Operates on 4 AA alkalines
- Stores 99 readings
- No warm up time

Applications

- Furniture and woodworking
- Coating and varnishing
- Engineered wood products
- Medical / veterinary
- Painting & corrosion resistant finishes
- Carpet manufacture & storage
- Adhesives
- Heat treatment operations
- RV/Trailer/mobil home inspecting

The FP-31 is a highly sensitive portable gas detector specific for formaldehyde detection. It uses a photoelectric photometry method which utilizes colorimetric tablets for detection. A tablet is placed into the instrument, and then a room air sample is pumped onto the tablet for either a 15 minute or a 30 minute period. If formaldehyde is present, it will cause the chemically impregnated tablet surface to darken or stain. The magnitude of the stain directly correlates to the level of formaldehyde in the air. The stain darkness is read by an optical sensor in the FP-31, and then the instrument calculates the formaldehyde concentration. The FP-31 then has a direct readout of the formaldehyde measurement on an easy to read LCD display. The unit is capable of detecting very low levels of formaldehyde, in order to confirm if an area contains safe breathing levels. There are no known interfering gases, as shown on the chart on the reverse side of this sheet.

Detection Ranges

30 minute sample 0 - 0.4 ppm (0.005 ppm/digit)

15 minute sample 0 - 1.0 ppm (0.01 ppm/digit)



Detection gas	Formaldehyde (HCHO) in air	
Detection range	0-0.4 ppm (0.005ppm/digit)	0-1.0 ppm (0.01 ppm/digit)
Detection time	30 minutes (1,800 sec.)	15 minutes (900 sec.)
Detection principle	Photoelectric photometry method	
Detection method	Colorimetric tablet method (accumulating measurement)	
Accuracy	± 10% of reading or ± 5% of full scale (which ever is greater)	
Display	Digital LCD	
Sampling method	Sample drawing with built-in pump	
Operating conditions	-10 ~ 40°C (14 ~ 104°F), below 90%RH	
Memory	Up to 99 readings (automatic recording at the completion of measurement)	
Self-diagnosis	Failure of light source and light receiver, low battery voltage, pump failure, system trouble	
Power Source	AA size Alkaline batteries (quantity 4)	
Continuous Operation	Approximately 12 hours (with no alarm or backlight, with alkaline batteries at 20°C)	
Dimension	Approx 85(W) x 190(H) x 40(D)mm, 3.35(W) x 7.48(H) x 1.57(W),	
Weight	500g, 17.6 oz	
Standard Accessories	<ul style="list-style-type: none"> • Detection TAB (20 pcs/pack) ** • Carrying case • AA size alkaline batteries • Operating manual 	
Optional Accessories	Zero and span tab, datalogging software, USB-IRdA cable (for downloading stored data)	
Warranty	One year material and workmanship	

Interference against other gases (typical)

Test Gas	Concentration	Reading
Toluene	1.0 vol.%	0 ppm
Benzene	1.0 vol.%	0 ppm
Acetoaldehyde	100 ppm	0 ppm
Carbon monoxide	50 ppm	0 ppm
Carbon dioxide	1.0 vol.%	0 ppm
Ammonia	25 ppm	0 ppm
Acetone	1.0 vol.%	0 ppm

Field Test Verification Data

Measurement Place	FP-31	DNPH method*
Interior	0.020 ppm	0.025 ppm
Locker	0.030 ppm	0.03 ppm
Furniture	0.040 ppm	0.05 ppm

* Dinitrophenylhydrazine detection method

** Please note: Detection tabs have a 6 month shelf life.
They must be stored in a refrigerator (37°F-50°F, 3-10°C)

Note: Specifications subject to change without notice.



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



CONFINED SPACE / LEAK DETECTOR

Gas Detection For Life

Gas Tracer Model



Features

- Monitors ppm, LEL, and % volume methane, O2 and CO
- ppm leak detector, detects down to 10 ppm CH4
- “Leak tracker” audible/visual alarm mode for CH4 and CO
- 0 to 100% volume Methane option
- Auto-ranging display of % LEL and % volume
- Barhole test mode
- Bump test reminder option
- Snap-logging - on demand data recording
- Pump pause on demand extends battery life
- Status indicators:
 - Pump active, microprocessor status and battery level
- Internal sample drawing pump with up to 50 foot range
- Vibration, visual, and audible alarms
- Automatic backlight during alarms
- Calibration reminder with lock out option
- Lithium ion or alkaline battery packs (interchangeable)
- Quick charge
- Glove friendly large buttons
- Alarm latching or non-latching
- High impact protective rubber overmolding
- Up to 600 hours of datalogging with alarm trends
- Autocalibration or single calibration
- TWA and STEL readings with lunch-break mode
- Intrinsically safe, ATEX/IECEX/CE or c CSA US (Optional)
- High dust and water resistance design
- 2 year warranty

Built around high-quality micro-sensor technology, the Gas Tracer is RKI’s smallest personal 5 sensor monitor with a built in sample pump. Weighing only 12.3 ounces, it has many features which set the Gas Tracer apart from the competition. For example, it can monitor the standard gas safety hazards for gas/pipeline operations, (LEL combustibles, Oxygen content, and Carbon Monoxide), and it also has a high-sensitivity ppm CH4 leak tracker mode which reads down to 10 ppm. It can also measure 100% volume Methane and dynamically display either % LEL, or % volume with its auto-ranging ability. The Gas Tracer is excellent for gas line purge testing and detection of small gas leaks.

The Gas Tracer’s large LCD display shows all gas readings, battery level, current time, and will automatically backlight in alarm conditions. Other standard mode alarm types include vibration, visual, and audible alarms that can be set to latching or non-latching. Controlled by a microprocessor, the Gas Tracer continuously checks itself for sensor connections, low battery, circuit trouble, low flow, and calibration errors. The Gas Tracer can operate on either a Li-Ion battery pack or an alkaline battery pack. The batteries are simple to replace requiring no tools to access the removable battery compartment or pack. Calibration and bump test intervals and reminders are user adjustable and can be set to either go into alarm or to lock the user out of normal measurement mode once a calibration period has expired. Calibrations can be performed automatically or individually in single calibration mode. The Gas Tracer is also compatible with the economical SDM-2012 single channel calibration station.

Gas Tracer Model

Gas Detected	Combustible Gases (Methane as standard)	% Volume Methane	PPM Methane	Oxygen (O ₂)	Carbon Monoxide (CO)
Detection Principle	Catalytic combustion	Thermal conductivity	MOS/catalytic	Galvanic cell	Electrochemical cell
Detection Range	0 ~ 100% LEL	0 ~ 100% Vol.	0 ~ 5000 ppm optional 10,000 ppm range version available	0 ~ 40% Vol.	0 ~ 500 ppm
Accuracy Statement (whichever is greater)	± 5% of reading or ± 2% LEL	± 5% of reading or ± 2% of full scale	± 10% of reading or ± 50 ppm CH ₄	± 0.5% O ₂	± 5% of reading or ± 5 ppm CO
Sampling Method	Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter				
Display	Digital LCD with 7 segments, auto backlight during alarm				
Preset Alarms (User Adjustable)	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	No alarms for % Vol. CH ₄	Increasing tone/ light pulse as concentration increases	Low alarm 19.5% High alarm 23.5% Over alarm 40.0%	1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm
Alarms Types	Leak Tracker Mode: Escalating audible/visual alarm, changes with gas level (audible can be turned off) Gas alarms: 1st and 2nd, STEL, TWA (user adjustable) and OVER Trouble alarms: Sensor connection, low battery, low flow, circuit trouble and calibration error				
Alarm Methods	Gas alarms: Flashing lights, two tone buzzer, and vibration Trouble alarms: Flashing lights, trouble displayed, intermittent buzzer, and vibration				
Operating Temp. & Humidity	-20°C to +50°C (-4°F to +122°F) 0 to 95% RH, non-condensing				
Response Time	Within 30 seconds (T90)				
Continuous Operation	Alkaline battery: 15 hours Li-Ion battery: 10 hours 70°F (21°C)				
Power Source	Li-Ion battery pack, or 3 "AA" Alkaline battery pack; interchangeable				
Safety Rating	ATEX, TIIS, IECEx, CE, or optionally: c CSA US classified, as intrinsically safe. Class I, Division 1, Groups A, B, C, D Note: Either ATEX (USA and worldwide) or CSA (Canada) version must be specified when ordering.				
Dimension & Weight	Approx. 143 (H) x 71 (W) x 43 (D) mm (5.6" H x 2.8" W x 1.6" D), approx. 350 g (12.3 ounces)				
Case Material	High dust & water resistant design. RFI shielded high impact plastic with protective rubber overmolding				
Controls	Five buttons: POWER / ENTER, DISPLAY, AIR, RESET, SHIFT				
Standard Accessories	<ul style="list-style-type: none"> • Belt clip • 10" Probe • 10' Hose • Rubber nozzle, 2.5" • Manual • Training CD • Datalogging software • Quick reference card 				
Optional Accessories	<ul style="list-style-type: none"> • SDM-2012 calibration stations • Li-Ion battery pack • Sample draw hoses (10' standard, up to 50' max. available) • Calibration kit • AC or DC Charger • Carrying case 				
Configurations	1, 2, 3, 4, or 5 sensor units Li-Ion or alkaline battery pack options				
Warranty	Two years material and workmanship				

Specifications subject to change without notice.



Authorized Distributor:



Sales and Service: 866-657-3777, www.repss.com



SINGLE GAS PERSONAL MONITOR

Gas Detection For Life

GasWatch 2 Model



Features

- 3 gases to choose from CO, H₂S, or O₂
- Hands free gas monitoring
- Compact “watch type” design
- Fast, accurate response with digital LCD display
- Fits on your wrist, clothing, belt or hardhat
- Automatic backlight during alarm
- Manual backlight
- Sensor fail alarm
- PEAK hold function (min. and max. values for O₂)
- TWA and STEL function
- Displays current time
- Visual, audible, and vibration alarms standard
- Over 3,000 hours of operation from 1 battery
- Intrinsically safe, CSA, C/US classified
- 2 year warranty

Applications

- Worker safety
- Refineries
- Petrochemical facilities
- Sewage treatment plants
- Fire departments
- Chemical plants
- Tunnels
- Mines
- Hazardous waste sites

The GasWatch 2 is the first single-gas monitor that can be comfortably worn on the wrist like a watch. The GasWatch 2 is a convenient, inexpensive, hands-free method of gas monitoring for personal protection from oxygen deficiency, carbon monoxide or hydrogen sulfide. The built-in vibrator, audible, and visual alarms immediately alert the user to a dangerous gas condition.

The GasWatch 2 is controlled by a microprocessor for reliability and advanced capabilities. Some of these advanced capabilities include distinctive audible and visual alarms for dangerous gas conditions and malfunctions, a large digital readout with a manual backlight that also automatically lights in an alarm condition, as well as the display of PEAK, TWA, and STEL readings. The replacement sensors are inexpensive, easily field replaceable, and have a life expectancy of about 2 years. 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 will operate for over 3,000 hours on one battery (about 1 year normal use). And yes, the GasWatch 2 even tells the time!

GasWatch 2 Model

Model Name	GW – 2X		GW – 2H		GW – 2C	
Gas Detected	Oxygen (O2)		Hydrogen Sulfide (H2S)		Carbon Monoxide (CO)	
Detection Principle	Galvanic cell		Electrochemical cell		Electrochemical cell	
Detection Range (Increments)	0 – 40%vol. (0.1% vol.)		0 – 100 ppm (0.5 ppm)		0 – 500 ppm (1 ppm)	
Accuracy Statement	± 0.5% O2		± 5% of reading or ± 2 ppm H2S (which ever is greater)		± 5% of reading or ± 5 ppm CO (which ever is greater)	
Alarm Set Points	Low	19.5% vol.	1st	10.0 ppm	1st	25 ppm
	High	23.5% vol.	2nd	30.0 ppm	2nd	50 ppm
			TWA	10.0 ppm	TWA	25 ppm
	Over	40.0% vol.	STEL	15.0 ppm	STEL	200 ppm
			Over	100.0 ppm	Over	500 ppm
Alarm Types	Gas alarms: 2 level alarm (user adjustable), STEL, TWA, and over alarm Trouble alarms: sensor connection, low battery, circuit error, and calibration range error					
Alarm Methods	Gas alarms: flashing light, intermittent buzzer and pulsing vibration Trouble alarms: flashing light, intermittent buzzer and trouble type displayed					
Gas Sampling	Diffusion					
Response Time	T90 in 20 seconds (Alarms within 5 seconds when exposed to 12% O2)		T90 in 30 seconds			
Accuracy	+/- 0.5% vol.		+/- 1.5 ppm (up to 30 ppm)		+/- 5 ppm (up to 150 ppm)	
Power	One coin type lithium battery (CR 2450)					
Continuous Operation	Approximately 3,000 hours with no alarms or backlighting (about 1 year of normal use)					
Safety Rating	CSA classified, “C/US”, as intrinsically safe. Class I, Division 1, Groups A, B, C and D. Class I, Zone 0, Group IIC. Temperature code T4					
Dimension Weight	2.5”(W) x 1.7”(H) x 0.9”(D) / 63.5 mm(W) x 43 mm(H) x 23 mm(D) 2 ounces / 60 grams					
Case	High-impact plastic, dust and weather proof					
Attachment Choices	Watchband, alligator clip, belt clip, and hard hat clip					
Operating Temperature and Humidity	-10 ~ 40°C, (14 ~ 104° F) below 85% RH (non condensing)					
Special Functions	• LCD manual backlight (automatic lighting during alarm) • STEL, TWA function • Peak hold • Time indication					
Warranty	Two years material and workmanship					

Ordering Information

GW-2X with watch band.....72-0007RK
 GW-2C with watch band73-0040RK
 GW-2H with watch band73-0041RK
 GW-2X with alligator clip.....72-0007RK-01
 GW-2C with alligator clip.....73-0040RK-01
 GW-2H with alligator clip.....73-0041RK-01

GW-2X with hardhat clip72-0007RK-02
 GW-2C with hardhat clip73-0040RK-02
 GW-2H with hardhat clip73-0041RK-02
 GW-2X with belt clip.....72-0007RK-03
 GW-2C with belt clip.....73-0040RK-03
 GW-2C with belt clip.....73-0041RK-03

Specifications subject to change without notice.



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Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



PERSONAL COMBUSTIBLE MONITOR

Gas Detection For Life

GP-01 Model



Features

- Smallest combustible monitor available 1.4"(W) x 4.1"(H) x 0.8"(D)
- Light weight 3.5 ounces
- Audible / visual / vibration alarms
- Operates 16 hours on alkaline batteries
- Ni-Cad option with direct charging
- Automatic backlight for LCD display
- Peak hold
- Low battery alarm
- Impact and water resistant
- 2 year Warranty

Applications

- Hazardous Material Handling
- Mining
- Refineries / Petrochemical
- Water / Wastewater Treatment
- Cable Vaults
- Utilities
- Chemical Plants
- Fire Services
- Telecom Companies



Individuals need personal protection in hazardous areas at all times without adding extra bulky equipment, and the GP-01 can provide that kind of protection at an affordable price. The GP-01 model is the smallest personal combustible gas monitor available, weighing only 3.5 ounces. It detects the presence of flammable mixtures and digitally indicates the concentration. This low cost combustible gas monitor operates up to 16 hours on 2 AAA size alkaline batteries and has a Ni-Cad version available. The GP-01 has a 0 to 100% LEL range and an LCD digital display with automatic backlighting during alarm. Designed to detect the presence of flammable gases or vapors, the GP-01 can operate intermittently or continuously. The 2 preset alarm levels at 10% and 50% LEL are user adjustable and are equipped with visual, audible and vibration alarms. The replaceable sensor is a proprietary coin type catalytic cell in a metal enclosure that will last for up to 3 years.

The GP-01 is safe for use in hazardous locations, certified as intrinsically safe by CSA to U.S. and Canadian standards for Class I, Division 1, Groups A, B, C, and D. The GP-01 is also performance tested and approved to CSA Standard C22.2 No.152. For additional information please visit our web site at www.rkiinstruments.com.

GP-01 Model

Measuring Gas	Combustible gas, methane (CH ₄) calibration standard
Dimension & Weight	1.4"W x 4.1"H x 0.8"D; 3.5 ounces (100 grams)
Detection Range	0 - 100% LEL (1% LEL increments)
Sampling Method	Diffusion
Display	7-segment + symbol on digital LCD, auto backlighting
Preset Alarms (User Adjustable)	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL
Display of Alarm	Gas Alarm: Flashing LED's, intermittent buzzer, flashing gas value, vibration Trouble alarm: Flashing LED's, intermittent buzzer, display of error message
Continuous Operation	• Alkaline dry cell: more than 16 hours (at 25°C, no backlight) • Ni-Cad battery: 8 hours (at 25°C and fully charged, no backlight)
Power Source	• Alkaline dry cell (2-AAA size), standard • Ni-Cad battery pack (2.4 VDC direct charging), optional
Operating Temp. & Humidity	-20°C ~ 50°C; Humidity below 90% RH (non-condensing)
Response Time	30 seconds to 90% response (T90)
Standard Accessories	• Rubber protective boots • Wrist strap • Alkaline batteries
Optional Accessories	• Charger unit • Calibration cap (adapter) • Calibration kit • Ni-Cad battery pack • Belt clip • Alligator clip
Warranty	Two years material and workmanship



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



PERSONAL FOUR GAS MONITOR

Gas Detection For Life

GX-2009 Model



Actual Size

**World's Smallest and Lightest
4 Gas Monitor**

Features

- Simultaneous detection of 4 gases
 - LEL, O₂, H₂S & CO
- Smallest/Lightest 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 Water resistant/dustproof design
- Calibration and bump test lock out or reminder controls
- Large capacity data logging standard
 - 8 alarm trends
 - Log time range of 10 to 300 hours
 - 100 calibration records stored
- 20 hours of operation (NiMH batteries)
- Large LCD display screen
- Automatic backlighting at alarm
- Impact resistant rubber over-mold body
- STEL and TWA readouts
- Intrinsically safe, CSA, C/US classified IECEx / ATEX approved (optional MSHA version available)
- 2 year warranty

Applications

- | | |
|----------------------------|--------------------|
| • Personal monitoring | • Oil and Gas |
| • Confined spaces | • Water/wastewater |
| • Refineries/petrochemical | • Fire services |
| • Utilities | • Construction |

RKI is proud to offer the smallest and lightest 4-gas monitor in the world, the GX-2009. Weighing only 4.6 ounces, it fits in the palm of your hand (2.75" H x 2.95" L x .98" D). The GX-2009 simultaneously monitors and displays 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 LED's on 3 sides of the instrument, so that alarm conditions are obvious from multiple perspectives especially in high noise environments. Other features include a water resistant and dustproof design with IP 67 rating, an impact resistant rubber over-mold body that is RFI resistant, and a large capacity data logging system included as standard.

Other standard features are vibration alarm, auto-calibration, calibration and bump test lock out or reminder control, STEL / TWA readings, peak hold, auto backlighting at alarm on a large LCD display, and it even tells the time! All of these controls and features are operated through 2 simple glove friendly buttons. The NiMH battery set will operate for 20 hours and will fully charge in 3 hours.

A huge capacity data logging function is a standard feature on all GX-2009 instruments. The data logging software will store up to 100 calibration records and is Windows XP, 7, 8, and 10. The GX-2009 is also functional with the SDM-2009 single calibration station and the Data Cal 2000 instrument maintenance system.

The GX-2009 is designed around RKI's compact and proven sensors, utilizing catalytic combustion, electrochemical and galvanic sensor technologies. Each miniaturized sensor is manufactured with the same high quality control that has made RKI sensors and instruments the most reliable and long lasting monitoring devices in the industry.

GX-2009 Model

Gas Detected	Combustible Gases (Methane as standard)	Oxygen (O2)	Hydrogen Sulfide (H2S)	Carbon Monoxide (CO)
Detection Principle	Catalytic combustion	Galvanic cell	Electrochemical cell	
Detection Range (Increments)	0 ~ 100% LEL (1% LEL)	0 ~ 40.0% Vol. (0.1% Vol.)	0 ~ 100.0 ppm (0.5 ppm)	0 ~ 500 ppm (1 ppm)
Accuracy Statement	± 5% of reading or ± 2% LEL (whichever is greater)	± 0.5% O2	± 5% of reading or ± 2 ppm H2S (whichever is greater)	± 5% of reading or ± 5 ppm CO (whichever is greater)
Sampling Method	Diffusion sampling standard / hand aspirator or motorized pump optional			
Display	Digital LCD displays all four gases simultaneously, with auto backlight			
Preset Alarms (User Adjustable) Overscale alarm (Non-adjustable)	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	Low alarm 19.5% High alarm 23.5% Over alarm 40.0%	1st alarm 10 ppm 2nd alarm 30 ppm TWA alarm 1.0 ppm STEL alarm 5.0 ppm Over alarm 100 ppm	1st alarm 25 ppm 2nd alarm 50 ppm TWA alarm 25 ppm STEL alarm 200 ppm Over alarm 500 ppm
Types of Alarms	Gas Alarm: 2 Increasing alarms, STEL, TWA, overscale alarm. O2 decreasing/increasing. Trouble alarm: Sensor disconnection, low battery, circuit error, calibration range error			
Display of Alarm	Gas Alarm: Flashing LEDs, intermittent buzzer (95 db @ 30 cm), flashing gas value, vibration Trouble alarm: Flashing LEDs, intermittent buzzer (95 db @ 30 cm), display of error message			
Operating Temp. & Humidity	-4°F to 122°F (-20°C ~ +50°C), 0 to 95% RH, non-condensing (splash resistant)			
Response Time	Within 30 seconds (T90)			
Continuous Operation	20 hours after a 3 hour full charge (14 hours after 90 min charge)			
Power Source	Direct charging NiMH batteries, set of 2			
Safety Design / Approvals	IECEx zone 0 Ex ia IIC T4; ATEX II 1G Ex ia IIC T4; (optional MSHA version also available) c CSA US classified, as intrinsically safe. Class I, Division 1, Groups A, B, C, D			
Dimension & Weight	2.7" H x 3" W x 1" D (Approx. 70 H x 75 W x 25 D mm), 4.6 ounces (approx. 130 g)			
Case Material	High impact over molded rubber. Dust and water resistant with IP-67 approval.			
Controls	Two buttons: POWER / MODE, AIR			
Datalogging	Standard with all instruments. Stores 8 alarm trend sessions where readings are recorded 30 minutes before and after an alarm event. 3,600 data point capacity with a log time range of 10 to 300 hours (based on programmable interval times); and stores up to 100 calibration records.			
Required Accessories	Battery charger			
Standard Accessories	Alligator clip 13-0116RK NiMH batteries (set of 2) 49-1609RK Charging station with 115/220 VAC power supply (also available without power supply, 49-2170RK) 49-2170RK-01 Product CD (includes datalogging software) 71-8002RK			
Optional Accessories	Belt Clip 13-0117RK Padded carrying case for GX-2009 and accessories 20-0112RK-01 Charging station, 115/220 VAC powered for 2, 3, 4, or 5 instruments 49-2170RK-XX Charging station with 12 VDC power supply and vehicle adapter plug 49-2171RK 12 VDC adapter with vehicle plug (does not include charger base) 49-2020RK RP-2009 pump with 4" rubber nipple, 10' hose and probe (up to 40' hose available) 81-1177RK RP-6 sample drawing pump with 10' hose and probe (up to 40' hose available) 81-1166RK Hand aspirated sample draw with 10' hose and probe (up to 40' hose available) 81-1160RK USB to IrDA downloading cable 47-5084RK-01 SDM-2009 single calibration station 81-SDM2009-01			
Configurations	• 4 gas, LEL / O2 / H2S / CO • 2 gas, LEL / O2 • Single gas LEL, O2, CO, H2S • 3 gas, LEL / O2 / H2S • 2 gas, O2 / H2S • 3 gas, LEL / O2 / CO • 2 gas, O2 / CO			
Warranty	Two years material and workmanship			

Specifications subject to change without notice.



Authorized Distributor:



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CONFINED SPACE MULTI GAS MONITOR

Gas Detection For Life

GX-2012 Model



Features

- Monitors ppm LEL, and % volume methane, O₂, CO and H₂S
- 0 to 100% volume methane option
- Auto-ranging display of % LEL and % volume
- 3 Operating modes: Normal, leak check, & bar hole
- Leak check mode:
 - PPM leak detector, detects down to 100 ppm CH₄
 - Adjustable display ranges: 500/1000/2000/5000 ppm
 - Visual / audible pulses change with gas concentration
 - CO display in leak check mode, ideal for residential investigations
- Barhole test mode for underground leak checks
- Status indicators: Pump active, microprocessor status and battery level
- Internal sample drawing pump with up to 50 foot range
- Vibration, visual, and audible alarms
- Automatic backlight during alarms
- Bump test and calibration reminder with lock out option
- Lithium ion or alkaline battery packs (interchangeable)
- Alarm latching or non-latching
- High impact, dust and water resistant design
- Up to 600 hours of datalogging with alarm trends
- Snap-logging - on demand data recording
- TWA and STEL readings with lunch-break mode
- Intrinsically safe, ATEX/IECEx/CE and (CSA version also available)
- 2 year warranty

With the GX-2012, you have multiple tools in one instrument. 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.

Built around high-quality micro-sensor technology, the GX-2012 is RKI's smallest personal 1-5 sensor gas monitor with a built in sample pump. Weighing only 12.3 ounces, the GX-2012 can monitor the standard confined space gases (LEL combustibles, Oxygen content, Carbon Monoxide, and Hydrogen Sulfide).

The GX-2012's large LCD display shows all gas readings, battery level, current time, and will automatically backlight in alarm conditions. Standard alarm types include vibration, visual, and audible alarms, which can be set to latching or non-latching. Controlled by a microprocessor, the GX-2012 continuously checks itself for sensor connections, low battery, circuit trouble, low flow, and calibration errors. The GX-2012 can interchangeably operate on either a Li-ion battery pack or an alkaline battery pack. The batteries are simple to replace requiring no tools to access the removable battery compartment or pack.

Calibration and bump test intervals and reminders are user adjustable and can be set to either go into alarm or to lock the user out of normal measurement mode once a calibration period has expired. Calibrations can be performed automatically or individually in single calibration mode. The GX-2012 is also compatible with the economical SDM-2012 single channel calibration station.

GX-2012 Model

Gas Detected	Combustible Gases (Methane as standard)	% Volume Methane	Oxygen (O ₂)	Hydrogen Sulfide (H ₂ S)	Carbon Monoxide (CO)
Detection Principle	Catalytic combustion	Thermal conductivity	Galvanic cell	Electrochemical cell	
Detection Range	0 ~ 100% LEL 0 ~ 500 / 1,000 / 2,000 / 5,000 ppm	0 ~ 100% Vol.	0 ~ 40% Vol.	0 ~ 100 ppm (Optional 0-500 ppm)	0 ~ 500 ppm
Accuracy Statement (whichever is greater)	± 5% of reading or ± 2% LEL (LEL mode only)	± 5% of reading or ± 2% of full scale	± 0.5% O ₂	± 5% of reading or ± 2 ppm H ₂ S	± 5% of reading or ± 5 ppm CO
Sampling Method	Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter				
Display	Digital LCD with 7 segments, auto backlight during alarm				
Preset Alarms (User Adjustable)	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	No alarms for % Vol. CH ₄	Low alarm 19.5% High alarm 23.5% Over alarm 40.0%	1st 5 ppm 2nd 30 ppm TWA 10 ppm STEL 15 ppm Over 100 ppm	1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm
Alarms Types	Gas alarms: 1st and 2nd, STEL, TWA (user adjustable) and OVER Trouble alarms: Sensor connection, low battery, low flow, circuit trouble and calibration error				
Alarm Methods	Gas alarms: Flashing lights, two tone buzzer, and vibration Trouble alarms: Flashing lights, trouble displayed, intermittent buzzer, and vibration				
Operating Temp. & Humidity	-20°C to +50°C (-4°F to 122°F) 0 to 95% RH, non-condensing				
Response Time	Within 30 seconds (T ₉₀)				
Continuous Operation	Alkaline battery: 15 hours Li-Ion battery: 10 hours 70°F (21°C)				
Power Source	Li-Ion battery pack, or 3 "AA" Alkaline battery pack; interchangeable				
Safety Rating	ATEX, TIIS, IECEx, CE, CSA classified (as standard), as intrinsically safe. Class I, Division 1, Groups A, B, C, D (optional version available)				
Dimension & Weight	Approx. 143 (H) x 71 (W) x 43 (D) mm (5.6" H x 2.8" W x 1.6" D), approx. 350 g (12.3 ounces)				
Case Material	High dust & water resistant design. RFI shielded high impact plastic with protective rubber overmolding				
Controls	Five buttons: POWER / ENTER, DISPLAY, AIR, RESET, SHIFT				
Standard Accessories	<ul style="list-style-type: none"> Belt clip 10" Probe 10' Hose Rubber nozzle, 3.5" Manual Training CD Datalogging software Quick reference card 				
Optional Accessories	<ul style="list-style-type: none"> SDM-2012 calibration stations Li-Ion battery pack Sample draw hoses (10' standard, up to 100' max. available) Calibration kit AC or DC Charger Carrying case 				
Configurations	1, 2, 3, 4, or 5 sensor units Li-Ion or alkaline battery pack options				
Warranty	Two years material and workmanship				



Specifications subject to change without notice.



Authorized Distributor:



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6 Gas, Sample Draw With PID, IR & Super Toxics

Gas Detection For Life

GX-6000



Features

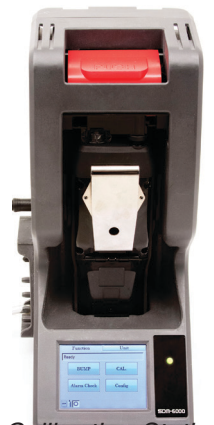
- Monitor up to 6 gases
- 2 smart sensor slots auto recognize PID, IR, and super toxic sensors
- 6 Operating modes: normal, leak check, benzene select mode, inert, snap log and bar hole
- Library of over 600 VOCs
- PPM Leak Check mode
- Man-down and panic alarms
- Auto display rotation
- LED Light source
- Internal sample pump
- Glove friendly glow in the dark buttons
- Light weight, small, rugged IP-67 design
- Interchangeable battery packs Li-ion / alkaline
- Operates up to 14 hours on Li-ion battery pack, fully recharges in 3 hours
- Field replaceable sensors, batteries and filters

Applications

- Confined space entry
- Hazmat response teams
- Arson investigation
- Remediation sites
- Perimeter monitoring
- Leak detection
- Landfill monitoring
- Wing tank entry

Simply put, the GX-6000 is a game changer. This powerful hand-held instrument is capable of simultaneously monitoring up to 6 gases. In addition to the standard 4 confined space gases which include combustibles, O₂, CO, & H₂S, the GX-6000 has 2 additional smart channels that accept PID, IR or super toxic sensors. Equipped with a strong internal sample pump, a man-down alarm, a panic alarm, an LED flashlight, and large auto rotating LCD display, the GX-6000 can operate as a single gas PID unit or a multifunctional tool utilizing all 6 channels. The GX-6000 with a PID sensor will come equipped with a library of over 600 VOC gases to choose from as standard. Choosing from the library is easy with a personalized favorites list of 30 commonly used VOC's as well as a list of 8 of the most recently used VOC's. A benzene-specific version is available using a pre-filter tube for detecting low levels of benzene.

The GX-6000 has a rugged design built for the nastiest environments. It is equipped with a removable impact-resistant rubber boot and a dust and water resistant enclosure with an IP-67 rating. With 5 bright LED lights on 3 sides of the instrument, alarms are easily seen from a variety of perspectives. With vibration and loud audible alarm, GX-6000 will easily alert users when needed.



SDM-6000 Calibration Station

Gases & Detectable Ranges					Common Specifications			
Gas	Measuring Range	Reading Increment	Alarm Set Points	Accuracy (which ever is greater)	Alarm Types	Gas alarm	Man-down	Trouble
Catalytic						Low and high adjustable	1st - self reset 2nd - latching	Low flow Sensor connection Low battery Circuit error Calibration range
Hydrocarbons (CH4, std)	0 - 100% LEL	1% LEL	A1: 10%LEL A2: 50%LEL	± 5% of reading or ± 2% LEL				
Galvanic					± 0.5% O2	Sample draw pump, flow rate 0.45 LPM, 50 foot sample range	Digital LCD, autobacklite, peak bar display, auto display rotation, and customize order of gases	Audible Alarm
Oxygen (O2)	0 - 40.0% Vol.	0.1% Vol.	A1: 19.5 Vol. A2: 23.5 Vol.					
Electro Chemical					± 5% of reading or ± 5 ppm	95 dB at 1 ft.	English, Spanish, French, German, Italian, Japanese, Korean, Portuguese, Russian	Continuous Operation
Carbon Monoxide (CO)	0 - 500 ppm	1 ppm	A1: 25 ppm A2: 50 ppm TWA 25 ppm STEL 200 ppm					
Hydrogen Sulfide (H2S)	0 - 100.0 ppm	0.5 ppm	A1: 5.0 ppm A2: 30.0 ppm TWA 1.0 ppm STEL 5.0 ppm					
Toxics (EC Sensors)								
Ammonia (NH3)	0 - 400.0 ppm	0.5 ppm	A1: 25 ppm A2: 50 ppm	± 10% of reading or ± 5% of full scale	Operating Temp. & Humidity	2.6" W x 7.8" H x 2" D (H200 x W68 x D52 mm) 14 ounce (400g) (with lithium battery pack)	Case Material	Safety Design / Approvals
Chlorine (Cl2)	0 - 10.00 ppm	0.05 ppm	A1: 0.5 ppm A2: 1.0 ppm					
Hydrogen Cyanide (HCN)	0 - 15.0 ppm	0.1 ppm	A1: 5 ppm A2: 10 ppm					
Nitrogen Dioxide (NO2)	0 - 20.00 ppm	0.05 ppm	A1: 3 ppm A2: 6 ppm					
Sulfur Dioxide (SO2)	0 - 99.90 ppm		A1: 2 ppm A2: 5 ppm					
IR Sensors								
Carbon Dioxide (CO2)	0 - 10,000 ppm	20 ppm	A1: 5,000 ppm TWA 5,000 ppm	± 5% of reading or ± 2% of full scale	Standard Features	2 Smart sensors slots auto recognize sensor changes Library of over 600 VOC's User defined VOC list. Up to 30 frequently used Recent VOC list for last 8 selected gases Pump and circuit status indicators User & station ID selection menu Datalogging (interval, alarm trend, station and user ID) Snap logging - on demand data logging Demand zero / Auto zero BUMP and CAL expiration alarm Flashlight IrDA communication LEL sensor protection mode	Standard Accessories	
	0 - 10.00% Vol.	0.02%	A1: 0.50% Vol A2: 3.00% Vol STEL 3.00% Vol TWA 0.50% Vol					
	Methane (CH4)	0 - 100% LEL 0 - 100% Vol.	Vol. 1% LEL/ 0.5% Vol					A1: 10% LEL A2: 50% LEL
	Hydrocarbons	0 - 100% LEL 0 - 30% Vol.						
PID Sensors					± 5% of full scale	Optional Accessories	Warranty	
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				



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



PID Detector for Volatile Organic Compounds

Gas Detection For Life

GX-6000



Features

- Two available VOC ranges
 - High range 0 - 6,000 ppm
 - Low range 0 - 50,000 ppb
- Onboard library of over 600 VOC's
- Easily switch VOC target gas
 - Favorite list of 30 VOC's
 - Recently used list of 8 VOC's
- Benzene specific option
- 2 smart sensor slots auto recognize PID, IR, and super toxic sensors
- Man-down and panic alarms
- Large font display with auto-rotation
- LED Light source
- Internal sample pump
- Glove friendly glow in the dark buttons
- Dust & Water resistant IP-67 design
- Interchangeable battery packs Li-ion / alkaline
- Operates up to 14 hours on Li-ion battery pack, fully recharges in 3 hours
- Field replaceable sensors, batteries and filters

Applications

- Confined space entry
- Hazmat response teams
- Arson investigation
- Remediation sites
- Perimeter monitoring
- Leak detection
- Landfill monitoring
- Wing tank entry

Simply put, the GX-6000 is a game changer. This powerful hand-held instrument is capable of detecting two ranges VOC's; 0 to 50 ppm low range and 0 - 6,000 ppm high range. With a library of over 600 VOC gases to select from built right into the instrument, the GX-6000 is going to have the target VOC you need. Selecting among the 600 VOC target gases is simple. Use the GX-6000's user defined list to create a custom list of up to 30 commonly used target gases, or simply use the recently used list, which holds the 8 most recent target VOC in it's memory. Equipped with a strong internal sample pump, a man-down alarm, a panic alarm, an LED flashlight, and large auto rotating LCD display. This specific GX-6000 model comes with a library of over 600 VOC gases to choose from as standard.

It has a rugged design built for the nastiest environments. It is equipped with a distinct red-colored impact-resistant rubber boot and a dust and water resistant enclosure with an IP-67 rating. With five bright LED lights on three sides of the instrument, alarms are easily seen from a variety of perspectives. With vibration and loud audible alarm, the GX-6000 will easily alert users when needed.



SDM-6000 Calibration Station

PID Sensors				
Gas	Measuring Range	Minimum Display	Alarm Set Points	Accuracy (which ever is greater)
VOC	0 - 50,000 ppb	1 ppb: (< 5000 ppb)	A1: 5,000 ppb	± 5% of full scale
		10 ppb: (> 5,000 ppb)	A2: 10,000 ppb	
	0 - 6,000 ppm	0.1 ppm: (< 600 ppm)	A1: 400 ppm	
		1 ppm: (> 600 ppm)	A2: 1,000 ppm	
Common Specifications				
Alarm Types	Gas alarm	Man-down		Trouble
	Low and high adjustable	1st - self reset 2nd - latching		Low flow Sensor connection Low battery Circuit error Calibration range
Sample Method	Sample draw pump, flow rate 0.45 LPM, 50 foot sample range			
Display	Digital LCD, autobacklite, peak bar display, auto display rotation, and customize order of gases			
Audible Alarm	95 dB at 1 ft.			
Languages	English, Spanish, French, German, Italian, Japanese, Korean, Portuguese, Russian			
Continuous Operation	14 hours on Lithium-ion battery pack. Complete recharge in 3 hours. 8 hours Alkaline battery pack (3 AA size within each pack)			
Operating Temp. & Humidity	-4°F to 122°F (-20°C ~ +50°C), 0- 95% RH non condensing			
Dimensions	2.6" W x 7.8" H x 2" D (H200 x W68 x D52 mm) 14 ounce (400g) (with lithium battery pack)			
Case Material	Dust and water resistant with IP-67 approval (exclude sample hose and probe)			
Safety Design / Approvals	Explosion proof: IECEx , ATEX , TIIS , cCSAus Explosion class :Ex ia IIC T4 Ga Others: CE Marking			
Standard Features	2 Smart sensors slots auto recognize sensor changes Library of over 600 VOC's User defined VOC list. Up to 30 frequently used Recent VOC list for last 8 selected gases Pump and circuit status indicators User & station ID selection menu Datalogging (interval, alarm trend, station and user ID) Snap logging - on demand data logging Demand zero / Auto zero BUMP and CAL expiration alarm Flashlight IrDA communication			
Standard Accessories	• Rubber boot • Belt clip • Hand strap • Tapper nozzle • Probe with hydrphobic & dust filter 3' teflon lined hose			
Optional Accessories	• SDM-6000 calibration station • Bundles with instrument carrying case and accessories • Flexible probes • Up to 40 foot sample hoses • Filter set • IrDA cable			
Warranty	Two years material (including sensors) and workmanship. One year for PID sensor			



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



INERT GAS TESTER

Gas Detection For Life

EAGLE™ Model

Features

- Simultaneous detection of up to four different gases
- PPM / LEL hydrocarbon detection
- Powerful long-life pump up to 125' range with filters
- Low flow pump shut off and alarm
- Built-in two pump dilution system for LEL measurement in inert atmospheres
- Security "Adjustment Lockout Switch"
- Up to 20 hours of continuous operation
- Alkaline or Ni-Cad capability
- Hydrogen-compensated carbon monoxide sensor
- Datalogging option
- Autocalibration / single gas calibration
- Dual hydrophobic filters
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, intended for Class I Division 2 hazardous locations. (No third party approval).



RKI is proud to offer this version of our Eagle portable gas detector. Equipped with features that are not available on any competitive units, the EAGLE is a powerful instrument that does more than just offer the standard confined space protection for LEL, O₂, H₂S and CO. The Eagle Inert Gas Tester is capable of detection of flammable gases and vapors in inerted environments, using a unique two-pump dilution sample system. This allows uses of a catalytic bead (pellistor) type sensor for LEL detection of virtually all flammable gases and vapors, including hydrogen.

Other unique EAGLE features include PPM or LEL hydrocarbon detection at the push of a button; as well as a special hydrogen-compensated CO sensor that rejects interference from hydrogen up to 10 % LEL. The EAGLE has a strong internal pump with a low flow auto shut off and alarm, which can draw samples from up to 125 feet even with the dual hydrophobic filters in place. This allows for quick response and recovery from distant sampling locations. It also includes a second pump to provide dilution air for the LEL sensor, with the two pump approach helping to compensate for changes in sample line restriction from long hoses or partially clogged filters. The EAGLE will continuously operate for over 20 hours on alkaline batteries or 12 hours on Ni-Cads.

With its ergonomic design and large glove friendly buttons, the EAGLE offers easy access to controls such as autocalibration, alarm silence, demand zero, peak hold and a wide variety of other features. Each channel has two alarm levels plus TWA and STEL alarms for toxic channels. The two alarm levels are user adjustable and can be latching or self resetting. Rugged, reliable, easy to operate and maintain, the EAGLE is the solution for just about any portable gas monitoring situation where inerted environments must be tested, with the versatility to also be used for standard confined space entry testing.

EAGLE™ Model

Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-polyester blend. Can operate in rain or set into 2.0" of water without damage. Ergonomically balanced with rugged top mounted handle.
Dimensions	10.5" L x 5.9" W x 7" H
Weight	5 lbs
Detection Principle	Catalytic combustion, electrochemical cell (CO and H ₂ S), galvanic cell (O ₂), (Hydrogen compensated CO sensor).
Sensor Life	2 years under normal conditions.
Sampling Method	Powerful, long-life pump (over 6,000 hours) can draw samples over 125 feet. Second pump provides dilution air for LEL sensor.
Display	4 x 20 LCD readout. Viewed through window in case top. Displays readings & status of 4 channels simultaneously. Backlight, automatic for alarms and by demand with adjustable time.
Alarms	2 alarms per channel plus TWA and STEL alarms for toxics. The two alarms are fully adjustable for levels, latching or self reset and silenceable.
Alarm Method	Buzzer 85 dB at 30 cm, dual high intensity LED's, and flashing display.
Controls	6 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL / ppm, alarm silence, peak hold, TWA / STEL values battery status and many other features.
Continuous Operation	20 Hrs min. using alkaline batteries, or 12 hrs using Ni-Cad.
Power Source	4 Alkaline or Ni-Cad, size D batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	-10°C to 40°C (14°F to 104°F), 0 to 95% RH, non-condensing.
Response Time	30 Seconds to 90% using standard 5 ft hose.
Safety Rating	Intrinsically safe design, intended for Class I Division 2 hazardous locations. (No third party approval).
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe and 5 foot hose, Internal hydrophobic filter.
Optional Accessories	<ul style="list-style-type: none"> Datalogging Remote alarms Ni-Cad batteries Battery charger, 115 VAC, 220 VAC, or 12 VDC Continuous operation adapter, 115 VAC or 12 VDC Extra loud buzzer Extension probes
Warranty	Two year material and workmanship

Gas	Measuring Range	Accuracy * Which ever is greater
Gases & Detectable Ranges		
Standard Confined Space Gases		
Hydrocarbons (CH ₄ , std)	0 - 100% LEL	± 5% of reading or ± 2% LEL (*)
	0 - 50,000 ppm	± 50 ppm or ± 10% of reading (*)
Oxygen (O ₂)	0 - 40% Vol.	± 0.5% O ₂
Carbon Monoxide (CO)	0 - 300 ppm	± 5% of reading or ± 5 ppm CO (*)
Hydrogen Sulfide (H ₂ S)	0 - 100 ppm	± 5% of reading or ± 2 ppm H ₂ S (*)

Ordering Information	
Eagle HC LEL / ppm / O ₂ / CO / H ₂ S Internal dilution	72-5400RK-10
NiCad batteries / 115VAC charger	49-2150RK-01
Datalog board	57-0012RK-01
Datalog software / download cable	82-5007RK
Calibration kit	81-5401RK-DLV

Specifications subject to change without notice.



Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



Inert atmosphere Gas monitor

Gas Detection For Life

EAGLE 2 Inert Monitor



Features

- Designed for catalyst operations at refineries
- Infrared (IR) Sensor for % LEL CH₄
 - Operates without the presence of O₂ unlike traditional catalytic sensors)
- Inert mode monitors for rising O₂ levels
- User select “Normal” or “Inert” mode
- Preset alarm values for each mode type
- External high capacity dust filter
- Multilingual (5 languages)
- Powerful long-life pump up to 125’ range
- Low flow pump shut off and alarm
- Alkaline 18 hours or NiMH 20 hours capability
- Password protection
- Datalogging standard
- Autocalibration / single gas calibration
- Internal hydrophobic dust filter
- External probe with hydrophobic filter
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, CSA approval

It is important to use the proper type of gas meter while working in an inert atmosphere. Inert atmospheres are created when oxygen is displaced by an inert gas, and often a high concentration of explosive gas may be present. An example of an inert atmosphere is the nitrogen purged catalyst units at refineries. When workers perform any catalyst handling functions in the reactors, special precautions are taken for their inert entry. In these low oxygen conditions, a standard catalytic bead sensor used for combustible gas detection does not operate correctly. RKI’s Eagle 2 uses an infrared (IR) sensor to detect combustible gas from 0-100% LEL. IR technology does not require oxygen for operation.

In addition to monitoring for combustible gases, the Eagle 2 has the ability to monitor for rising O₂ concentrations and toxic gases H₂S and CO. The CO sensor will act as dual sensor for both carbon monoxide and hydrogen. Upon start up of the meter, the user selects either normal or inert mode to select the proper alarm levels for the application. With its powerful pump the Eagle 2 can be used with up to a 125’ hose, allowing the meter to stay with the hole attendant while monitoring the working conditions inside the cracking unit.

The Eagle 2 has the sensor technology needed for inert entry and is designed to withstand the extreme conditions surrounding the catalyst operations.

Simplify maintenance and record keeping with the Eagle 2’s docking and calibration station, the SDM-E2. Automatically charge bump test, calibrate, and archive instrument records using the SDM-E2.

EAGLE 2 Inert Monitor

Specifications	
Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-PBT blend. Can operate in 2.0" of water without leakage. Ergonomically balanced with rugged top mounted handle. Water & dust resistant equivalent to IP64.
Dimensions	9.5" L x 5.25" W x 5.875" H
Weight	3.8 Lbs (standard 4 gas with batteries).
Sampling Method	Powerful, long-life internal pump (over 6,000 hours) can draw samples over 125 feet. Flow rate approximately 2.0 SCFH.
Display	3 display modes: display all gases, large font-autoscroll, or large font-manual scroll. Polyurethane protected overlay. Backlight, illuminates for alarms and by demand, with adjustable time.
Language	Readout can display in 5 languages (English, French, German, Italian, or Spanish).
Alarms	2 Alarms per channel plus TWA and STEL alarms for toxics. The two alarms are fully adjustable for levels, latching or self reset, and silenceable.
Alarm Method	Buzzer 95 dB at 30 cm, four high intensity LED's.
Controls	4 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL/ppm, alarm silence, peak hold, TWA/STEL values, battery status, conversion factors, and many other features.
Continuous Operation	At 70°F, 18 hours using alkaline batteries, or 20 hours using NiMH.
Power Source	4 alkaline or NiMH, size C batteries (Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines).
Operating Temp. & Humidity	-20°C to 50°C (-4°F to 122°F), 0 to 95% RH, non-condensing.
Environmental	IP-64 Water resistant
Response Time	30 Seconds to 90% (for most gases) using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Groups A, B, C, D. Approvals: CSA / CE
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic probe, and 5 foot hose, internal hydrophobic filter.
Optional Accessories	<ul style="list-style-type: none"> Calibration station NiMH batteries Battery charger, 115 VAC, 220 VAC, or 12 VDC (charge time 4 hours) Continuous operation adapter, 115 VAC or 12 VDC Calibration kits Extension hoses
Warranty	Two year material and workmanship.

Gas	Measuring Range	Accuracy * Which ever is greater
Gases & Detectable Ranges		
Oxygen (O ₂)	0 - 40% Vol.	± 0.5% O ₂
Carbon Monoxide (CO)	0 - 500 ppm	± 5% of reading or ± 5 ppm CO (*)
Hydrogen Sulfide (H ₂ S)	0 - 100 ppm	± 5% of reading or ± 2 ppm H ₂ S (*)
IR Sensors		
Methane (CH ₄)	0 - 100% LEL	± 5% of reading or ± 2% of full scale (*)
Calibration Station		



Stand Alone



Multi Module System

Part# 724-001-IR-CAT **Description** EAGLE 2 for CH₄ % LEL (IR) / O₂ / H₂S / CO, inert mode for catalyst applications

Other configurations available.

Specifications subject to change without notice.

Made in the USA



authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



Tanker Tester Gas Monitor

Gas Detection For Life

Marine EAGLE



Features

- Simultaneously monitor Hydrocarbons O₂, and H₂S
- HC ranges include 100% LEL and 30% volume
- Monitor HC gas from inerted tanks
- Oxygen only version available
- 0-1000 ppm H₂S range available as a special option
- Autoranging display between % volume and % LEL HC
- Powerful long-life pump with 125' range
- Alkaline or Ni-Cad capability
- Datalogging option
- Autocalibration
- Dual hydrophobic filters
- Internal oil mist filter
- Ergonomic RFI / EMI / chemical / weather resistant enclosure
- Intrinsically safe design, CSA (C / US) & UL Classified

RKI is pleased to offer the most versatile portable gas detector specifically for maritime tankers. The EAGLE provides detection combinations never before offered in a portable gas monitor featuring gases like % LEL and volume of hydro-carbons, oxygen, as well as PPM levels of hydrogen sulfide.

The EAGLE features include an infrared sensor for combustible gas monitoring in inerted tanks, and dual hydrophobic filters to increase its water resistant performance. For quick response and recovery from distant sampling locations, the EAGLE has a strong internal pump with low flow auto shut off and alarm. The pump can draw samples up to 125 feet even with the dual hydrophobic filters in place. The EAGLE will continuously operate for over 30 hours on alkaline batteries or 18 hours on Ni-Cads. A variety of accessories are also available to help satisfy almost any application such as long sample hoses, datalogging, continuous operation adapters, remote alarms and strobes, extra loud buzzer and alkaline recognition battery charger. The marine versions of the Eagle also include an internal oil mist filter to protect the sampling system.

With its ergonomic design and large glove friendly buttons, the EAGLE offers easy access to controls such as autocalibration, alarm silence, demand zero, peak hold and a wide variety of other features and settings. Each channel has two alarm levels. The two alarm levels are user adjustable and can be latching or self resetting. Rugged, reliable, easy to operate and maintain, the EAGLE is the solution for testing HC vapor levels in inerted tanks. Also, a special version can detect H₂S levels up to 1,000 ppm.

Enclosure	Weatherproof, chemical resistant, RFI / EMI coated high impact polycarbonate-polyester blend. Can operate in rain or set into 2.5" of water without damage. Ergonomically balanced with rugged top mounted handle.
Dimensions	10.5" L x 5.9" W x 7" H (26.7 cm x 15 cm x 17.8 cm)
Weight	5 lbs (2.27 kg)
Detection Principle	Electrochemical cell, galvanic cell, and infrared.
Sensor Life	2 years under normal conditions.
Sampling Method	Powerful, long-life pump (over 6,000 hours) can draw samples over 125 feet. Flow rate approximately 2.0 SCFH (1 LPM).
Display	4 x 20 LCD readout. Viewed through window in case top. Displays readings & status of all channels simultaneously. Backlight, automatic for alarms and by demand with adjustable time.
Alarms	2 alarms per channel. The two alarms are fully adjustable for levels, latching or self reset and silenceable.
Alarm Method	Buzzer 85 dB at 30 cm, dual high intensity LED's, and flashing display.
Controls	6 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access alarm silence, peak hold, battery status and many other features.
Continuous Operation	30 Hours minimum using alkaline batteries, or 18 hours using Ni-Cads.
Power Source	4 Alkaline or Ni-Cad, size D batteries. Charger has alkaline recognition to prevent battery damage if charging is attempted with alkalines.
Operating Temp. & Humidity	-10°C to 40°C (14°F to 104°F), 0 to 95% RH, non-condensing.
Response Time	30 Seconds to 90% using standard 5 ft hose.
Safety Rating	Intrinsically Safe, Class I, Division 1, Groups A, B, C and D. CSA (C / US) & UL Classified.
Standard Accessories	Shoulder strap, alkaline batteries, hydrophobic filter probe, 5 foot hose, internal hydrophobic filter, oil mist filter (internal), manual, and training CD
Optional Accessories	<ul style="list-style-type: none"> Datalogging of up to 4 gases (except 1000 ppm H2S version) Remote alarms Ni-Cad batteries Battery charger, 115 VAC, 220 VAC, or 12 VDC Continuous operation adapter, 115 VAC or 12 VDC Extra loud buzzer Extension hoses Floating head with 25' hose
Warranty	One year material and workmanship

Ordering Information	
Part Number	Description
72-5354RK	HC (100% LEL / 30% Vol. autoranging IR) / O2 / H2S (0-100 ppm)
72-5355RK	HC (100% LEL / 30% Vol. autoranging IR) / O2 / H2S (0-1,000 ppm)
72-5268RK	HC (100% LEL / 30% Vol. autoranging IR) / O2
72-5102RKM	Oxygen only, 0-25% O2
72-5121RK	HC only (100% LEL / 30% Vol. autoranging IR)

Special Features

- Autoranging display of %LEL & %volume.
- Low flow alarm shuts pump off to avoid damage to instrument.
- Hydrophobic filter disc in probe.
- Internal hydrophobic filter.
- Internal oil mist filter
- Hoses available up to 125' long

Specifications subject to change without notice.

Made in the USA



A9812



ISO 9001:2000

authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



COMBUSTIBLE & OXYGEN INDICATORS

Gas Detection For Life

P-200 Series



Features

- Fast Response
- Light Weight
- Rugged Construction
- Simple to Operate
- Economical
- Field Proven Dependability

Industry Applications

- Industrial Applications
- Land Fills
- Utilities
- Public Works

The P-200 series gas detectors are rugged, lightweight, hand held portables for detecting combustible gases/vapors and monitoring atmospheric oxygen content. Engineered to serve the demanding field requirements of industrial, public works, utilities, and landfills, these instruments share many common features and offer the user distinct advantages in terms of economy, dependability, maintainability and ease of operation. Built to withstand rough field environments, all Series P-200 instruments are constructed with rugged cast aluminum housings, and incorporate highly reliable electrical design characteristics. All active and passive components are mounted on easily accessible printed circuit boards. In operation, all P-200 instruments are not only easy to use, sharing common functional characteristics, but they are extraordinarily fast in providing accurate readings. For combustible indicators, the response time is about 4 seconds, and for oxygen indicators an accurate reading is attained within 6 seconds.

By maximizing the use of common components and operating characteristics, RKI offers not only high quality field instruments, but has greatly simplified and expedited other very important considerations, such as field service, personnel training and accessory interchangeability. The commonality of components can save valuable time when field service becomes necessary. Fundamental operating features are easy to understand and all components are very accessible for checkout, replacement or repair.

P-200 Series

Specifications:

Model	GP-204 Combustible Indicator	NP-204 Natural Gas Detector	XP-204 Oxygen Deficiency Indicator	XP-204A Oxygen, Amplified Dual Range Indicator
Part Number	72-0001RK*	72-0004RK*	72-0050RK	72-0052RK
Range	0 - 100% LEL	0 - 100% LEL 0 - 100% Volume	0 - 25% Volume	0 - 25% Volume 0 - 5% Volume
Calibration	Methane		Oxygen	
Detection Method	Catalytic Combustion	Catalytic Combustion (LEL) Thermal Conductivity (Vol)	Electrochemical Sensor	
Response Time	4 seconds		6 seconds	
Sampling Method	Hand aspirated			
Batteries	2 “D” size (Alkaline or Nicad)		9 volt transistor type	
Operating Hours	6 (Alkaline) 4 (Ni-Cads)		30	
Operating Temperature	0 - 120 F (-15 to +50 C)		10 - 110 F (-12 to +45 C)	
Meter Light	Standard		N / A	
Size	6.5” x 5.3” x 4”			
Weight	5 lbs		3 lbs	

* NOTE: Part numbers are for alkaline versions. Add a -01 suffix to the part number for Ni-Cad versions.

Specifications subject to change without notice.

Made in the USA

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Authorized Distributor:



Sales & Service: 866-657-3777, www.repss.com



GX-2009 REMOTE SAMPLE DRAWING PUMP

Gas Detection For Life

RP-6 Model



The GX-2009 is the smallest 4-gas monitor in the world and is available with a compact battery operated sample-drawing pump that attaches in line for remote, portable monitoring. Together the model RP-6 sample drawing pump and the GX-2009 make a complete solution for confined space entry situations.

The RP-6 pump is housed in a rugged plastic case with quick connect fittings located on both ends of the unit. It is sold with either a 4" rubber nipple and with a 10' or 20' hose and probe. When buying the RP-6 with a hose and probe, the probe is equipped with a dust filter and the hose connects at the RP-6's quick connect inlet fitting. The inlet fitting of the RP-6 then connects to a removable clear plastic cup, which is a filter holder. This filter holder contains a dust and hydrophobic filter inside. The exhaust fitting of the RP-6, which is also a quick connect, connects to a coiled hose, which brings the sample to the GX-2009. The RP-6 will run for 5 hours from just 1 AA alkaline battery.

A rotating, ON/OFF switch is located near the inlet end of the RP-6. When the ON/OFF switch is on, the green power LED is illuminated. If a low flow condition occurs, the RP-6 will go into low flow alarm with a red flashing LED. For additional versatility, the RP-6 is also available for use with our model GX-2001 portable gas monitor.

Pump Specifications:	
Power Supply	AA size alkaline battery (1 each)
Continuous Operation	More than 5 hours at 20° C
Operating Temperature & Humidity	-10° C ~ +40° C, 0 - 95% RH
Outer Dimensions & Weight	1.3" (D) x 1.3" (W) x 5.3" (H), (taper nozzle not included), approximately 105g (including alkaline battery)
Sampling Flow Rate	0.5 liters per minute
Low Flow Alarm	Blinking red LED
Low Battery Alarm	Blinking green LED (power lamp)
Filters	Includes built in dust & hydrophobic filters
Ordering Information	81-1165RK: Pump with 4" rubber nipple only 81-1166RK: Pump with 4" rubber nipple, 10' hose and probe

Please refer to Model GX-2009 datasheet for instrument specifications.



GX-2009 REMOTE SAMPLE DRAWING PUMP

Gas Detection For Life

RP-2009 Model



FEATURES

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

The GX-2009 is the smallest 4 gas portable monitor in the world. 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 over the sensor area of the GX-2009 gas monitor, and removes easily when sampling is completed. No tools are required.

A push button ON/OFF switch is used to activate the RP-2009, and a green power light is illuminated when it is on. If a low flow condition occurs, from either a flow blockage or a low battery, a red flashing LED is activated and an audible alarm will sound. For added versatility, the RP-2009 pump assembly is also available for use with our model GX-2001 gas monitor.

RP-2009 Model

Pump Specifications:	
Power Supply	AA size alkaline battery (1 each)
Continuous Operation	More than 8 hours at 20° C
Operating Temperature & Humidity	-10° C ~ +40° C, 0 - 95% RH
Outer Dimensions & Weight	1.3" (D) x 1.3" (W) x 5.3" (H), (hose and probe not included) approximately 105g (including alkaline battery)
Sampling Flow Rate	0.5 liters per minute
Low Flow Alarm	Blinking red LED and audible alarm
Low Battery Alarm	Blinking red LED and audible alarm
Filters	Includes built in dust & hydrophobic filters. Probe also has a dust filter.
Sample Range	30 feet maximum



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Single Toxic Gas Monitor

Gas Detection For Life

SC-01 Model



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
- Audible / visual / vibration alarms
- Datalogging standard
- Impact resistant protective rubber boot
- Intrinsically safe, CSA, C/US classified

Applications

- Utilities
- Personal monitoring
- Refineries / petrochemical
- Chemical plants
- Hazmat response
- Water / wastewater treatment
- Semiconductor plants

Built around RKI's latest smart sensor technology, the SC-01 is a versatile single toxic gas monitor. The smart sensors are interchangeable, with the SC-01 automatically recognizing any sensor change without any set up or configuration changes. The sensor's calibration information also stays with each sensor. Weighing only 7.6 ounces, it has many features which set it apart from the competition. For example, it offers sensors for Arsine (AsH₃), Ammonia (NH₃), Carbon Monoxide (CO), Chlorine (Cl₂), Hydrogen Cyanide (HCN), Hydrogen Sulfide (H₂S), Phosphine (PH₃), and Sulfur Dioxide (SO₂). 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 the gas reading, battery level, current time, and will automatically backlight in alarm conditions. Standard alarm types include vibration, visual, and audible alarms that can be set to latching or self-resetting. Controlled by a microprocessor, the SC-01 continuously checks itself for sensor connections, low battery and circuit trouble. The batteries are simple to replace, requiring no tools to access the battery compartment. 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 which communicates through an IR port with an optional Windows® based datalogging software program. Calibration intervals and reminders are user adjustable and can be set to either go into alarm or to lock the user out of normal measurement mode once a calibration period has expired.

SC-01 Model

Sensor Type	ESM-01 smart, plug in style sensors
Detection Principle	Electrochemical
Accuracy Statement	± 10% of reading or ± 5% of full scale (which ever is greater)
Response Time (T90)	60 Seconds
Sampling Method	Diffusion, optional sensor extender cable
Display	Digital LCD, auto backlight during alarm
Alarm Operation	Latching and reset function
Alarm Types	Gas alarms: 1st, 2nd, STEL, TWA and OVER Trouble alarms: Sensor connection, low battery, circuit trouble, and calibration error
Alarm Methods	Gas alarms: Blinking LED array, intermittent buzzer, blinking gas values, vibration Trouble alarms: Blinking LED array, quick intermittent buzzer, display of trouble, vibration
Operating Temp. & Humidity	14°F to 104°F (-10°C to +40°C) Below 95% RH (non-condensing)
Continuous Operation	More than 250 hours (at 25°C, no alarm)
Power Source	2 "AA" Alkaline dry cell batteries
Safety Rating	CSA classified, "C/US", as intrinsically safe. Class I, Division 1, Groups A, B, C, D
Dimension & Weight	2.5" W x 5.2" H x 1.2" D (63 W x 131 H x 31 D mm) 7.6 ounces (215 g)
Case Material	Dust & splash resistant. RFI shielded high impact plastic with protective rubber boot
Controls	Three buttons: AIR / UP, DISPLAY / DOWN, & POWER
Standard Accessories	<ul style="list-style-type: none"> • Alligator clip • AA size alkaline batteries (2 each) • Impact resistant rubber boot • Manual
Optional Accessories	<ul style="list-style-type: none"> • Belt clip • Extender cable 10ft (3m) • Datalogging software for PC
Warranty	One year material and workmanship

Ordering Information		
Part Number	Gas	Range
73-0050RK-XXX = SC-01 with an alligator clip 73-0051RK-XXX = SC-01 with a belt clip		
73-0050RK-AsH3	Arsine (AsH3)	0 - 1.5 ppm
73-0050RK-NH3	Ammonia (NH3)	0 - 75 ppm
73-0050RK-CO	Carbon Monoxide (CO)	0 - 75 ppm
73-0050RK-CL2	Chlorine (Cl2)	0 - 3.00 ppm
73-0050RK-HCN	Hydrogen Cyanide	0 - 15 ppm
73-0050RK-H2S	Hydrogen Sulfide (H2S)	0 - 30.0 ppm
73-0050RK-PH3	Phosphine (PH3)	0 - 1.00 ppm
73-0050RK-SO2	Sulfur Dioxide (SO2)	0 - 6.00 ppm



Specifications subject to change without notice.



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Standalone Calibration Station

Gas Detection For Life

SM-2000 Series



Features

- Stand alone system, no PC needed for operation
- Calibrate, bump test, charge, and archive data
- Software manages records by serial #, user ID, or station ID
- Each station is equipped with configuration control and status indicators
- User adjustable test times and tolerances
- Automatic quick charge of instrument in 90 minutes or less
- Alkaline recognition – will not attempt to charge alkaline batteries (SM-2003U)
- Exhaust line connection for test gas venting
- Records are stored as a tab delineated text file (.txt format can be imported into a spreadsheet)
- Software is Windows Vista, and XP compatible
- Operates on any Pentium II or higher PC
- USB port for downloading data to a USB flash drive
- USB flash drive included

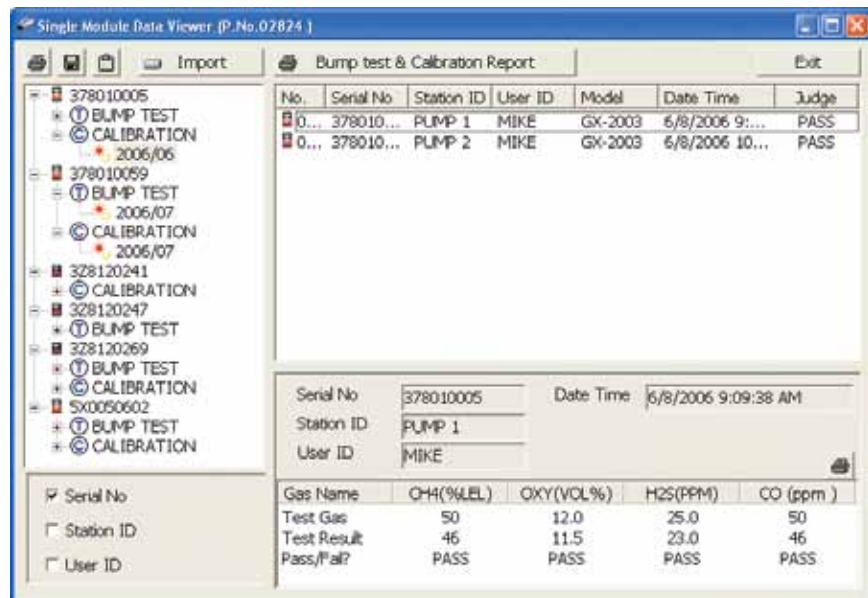
Models SM-2009U and SM-2003U

The SM-2000 single module calibration station for the GX-2009 and GX-2003 portable gas monitors is a stand alone station that can calibrate, bump test, charge, and archive data without the need of a computer to operate. The module has 4 operating modes, which include bump test only, % volume methane bump/calibration (for the GX-2003), calibration only, and bump with automatic calibration (if the bump test fails). The SM-2000 modules are capable of storing up to 200 bump test or calibration records. To download the data each module includes a 1 GB USB flash drive. Also included is a software package to import the data from the USB drive and manage records by serial #, user ID, or station ID. Each module has user adjustable test times and tolerances to meet specific testing requirements. The charger within the module quick charges battery packs within 90 minutes and will recognize alkaline batteries. The Calibration Station power requirements are 115/230 VAC, 50/60Hz.

Calibration Stations	
81-SM2009U	GX-2009 Calibration station, includes power cord, USB flash drive, and software
81-SM2003U	GX-2003 Calibration station, includes power cord, USB flash drive, and software
81-SM2003UC	GX-2003 Calibration station, includes power cord, USB flash drive, and software (evaluated to Canadian electrical code safety standard)
Calibration Gases & Regulators	
81-0154RK-02	LEL CH ₄ /O ₂ /CO/H ₂ S, 58L
81-0155RK-02	LEL Hexane/O ₂ /CO/H ₂ S, 58L
81-0090RK-03	LEL CH ₄ /O ₂ /CO, 103L
81-0089RK-03	LEL Hexane/O ₂ /CO, 103L
81-0016RK-05	100% Vol. CH ₄ , 58L
81-0151RK-02	H ₂ S/N ₂ , 58L
81-0078RK-03	100% N ₂ , 103L
81-1054RK	Demand Flow Regulator
06-1248RK-03	Calibration Tubing, Polyurethane (3/16" x 5/16" x 3')

SM-2000 Series

Input Power	115/230 VAC, 50/60 Hz
Environmental Conditions	For indoor use only
Operating Temp. & Humidity	-10°C to +40°C (-14°F to 104°F) 0 to 80% RH, non-condensing
Applicable Instruments	SM-2009U: GX-2009 SM-2003U: GX-2003
Operating Modes	<ul style="list-style-type: none"> • Bump test only • % Volume methane bump/calibration • Calibration only • Bump with automatic calibration (if bump fails)
Maximum Number of Records Saved	200
Standard Accessories	<ul style="list-style-type: none"> • AC Power Cord • Single Module Data Viewer Software • Inlet Air Filter • Instruction Manual • USB Flash Drive



Main program window of PC-based software for archiving, viewing, and printing data (included)



Specifications subject to change without notice.



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GAS LEAK CHECKER

Gas Detection For Life

SP-220 Series



Features

- Over 40 target gases to choose from
- Sensitivity and gas range automatically change based on selected target gas
- Compact, rugged, and easy to grip - weighs only 7.5 ounces
- Impact resistant rubber boot
- Easy to read LCD display includes: gas name, gas reading (digitally and graphically), operational indicators like battery, pump, pilot, and sound
- Resistant to silicone poisoning
- Silence gas alarms for discrete leak checking
- Snap logging records and saves to up to 128 readings
- Available with data logging function
- Built-in LED lighting for dark and confined spaces
- IP-55 Water-resistant / dust-proof design
- Continuous operation over 12 hours with 2 AA batteries
- Visual LED, vibration, and audible alarm types

Applications

- Compressed gas cylinders
- Gas cabinets
- Pipes and joints
- A/C unit freon leaks
- Hazmat teams
- Fire services

The model SP-220 is RKI's latest product offering for leak detection of combustible, toxic, freon and fumigation gases. The SP-220's rugged, light weight design and fast response time plus ease of operation will make pinpointing hard-to-find, low concentration gas leaks a simple procedure.

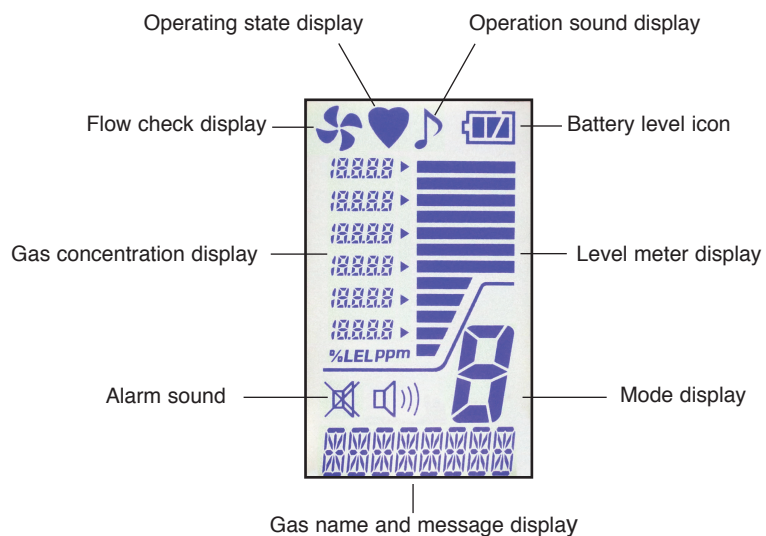
The SP-220 type SC version uses a hot-wire semiconductor sensor (MOS) that can detect a range of target gases including PH₃, CH₄, H₂, HCL, ETO, HBr and NH₃. The SP-220 type FUM version also uses the same MOS sensor and can detect fumigation gases including methyl bromide, sulfuryl fluoride and phosphine.

An integral pump, LCD display with backlight, molded rubber cover, LED light and weather protection (IP-55 rating) are some of the unique features of the SP-220. Snap logging (128 readings) and data-logging (256 data points) features allow for accurate record keeping and testing accountability. The SP-220 also has the ability to zero out background gas to help identify if you are getting closer to a leak source.

SP-220 Series

SPECIFICATIONS

Model	SP-220 TYPE FUM (Fumigation)	SP-220 TYPE SC (Toxic, Combustible, CFC)
Target gas	Refer to the gas list	
Detection principle	Hot-wire semiconductor method (MOS)	
Sensor	SH-8662	
Measuring range	Depends on target gas	
Accuracy	Displays 0.1 ppm-bar when 0.3 ppm PH3 applied.	
ALARM	Alarm set point	Depends on target gas
	Alarm pattern	Gas alarm : Gas concentration reached or over the setting point. Trouble alarm: Sensor connection / breaking, Low battery, Low flow Circuit error, Calibration error
	Alarm method	Non-latching
	Display of alarm	Gas alarm : Flashing LED, Buzzer Trouble alarm: Flashing LED, Buzzer, Display of error message
Sampling method	Sample draw	
Response time	10 sec.: Time to reach 0.1 ppm when 0.3 ppm PH3 applied.	
Output signal	IrDA	
Control buttons	[AIR] [MODE] [POWER]	
Display device	LCD	
Display contents	Gas name, Gas concentration, Time, Battery, Pilot indicator, Pump display indicator, Sound	
Power source	2 AA Alkaline batteries	
Continuous operation	Greater than 12 hours	
Operating temp. & humidity	-20~+55°C (-4°F~+131°F), 0~95%RH(Non-condensing)	
Dimension & weight	7.87"(H) x 1.69"(D) x 1.85"(W) (Tapered nozzle not included), 7.5oz	
Ingress rating	IP-55	
Function	Manual LCD backlight (Automatically ON when alarming), Peak value, Snap logging, Time, Cal alarm	
Standard accessories	Hand strap, Rubber cover, Tapered nozzle	



Specifications subject to change without notice

SP-220 (TYPE SC) GAS LIST

Gas name	Display	Conc. Display 1 (ppm)	Conc. Display2 (ppm)
1,2- Dichloroethane	EDC	1	10
2,3,3,3- Tetrafluoro-propene	CH2C2F4	10	30
Acetone	C3H6O	1	10
Ammonia	NH3	10	-
Arsine	AsH3	0.2	-
Benzene	C6H6	0.5	10
Carbon monoxide	CO	10	30
FREONS	CFC R-134a	R-134a	50
	CFC R-22	R-22	10
	CFC R-32	R-32	10
	CFC R-404A	R-404A	10
	CFC R-407C	R-407C	10
	CFC R-410A	R-410A	10
Diborane	B2H6	0.1	-
Ethanol	C2H5OH	1	10
Ethylene	C2H4	1	10
Ethylene oxide	ETO	1	10
Formaldehyde	HCHO	10	50
Germane	GeH4	0.2	-
Hydrogen	H2	1	10
Hydrogen bromide	HBr	10	-
Hydrogen chloride	HCL	10	-
Hydrogen selenide	H2Se	0.5	-
Hydrogen sulfide	H2S	0.1	-
Isobutane	i-C4H10	1	10
Isopropyl alcohol	IPA	1	10
Methane	CH4	1	20
Methanol	CH3OH	1	10
Methyl bromide	CH3Br	1	20
Methyl chloride	CH3CL	1	10
Methyl ethyl ketone	MEK	1	10
n-hexane	n-C6H14	10	50
Phosphine	PH3	0.1	2
Propane	C3H8	1	10
Silane	SiH4	0.5	-
Sulfur dioxide	SO2	1	-
Toluene	C7H8	1	10
Trichloroethylene	C2HCL3	10	-
Vinyl chloride	VCM	1	-
Xylene	C8H10	1	10

SP-220 (TYPE FUM) GAS LIST

Gas Name	Display	Display 1 (ppm)	Display 2 (ppm)	Display 3 (ppm)
Carbon disulfide	CS2	0.1	-	-
Ethylene dibromide	C2H4Br2	1	10	30
Hydrogen cyanide	HCN	1	-	-
Methyl bromide	CH3Br	1	20	100
Methyl iodide	CH3I	1	10	30
Phosphine	PH3	0.1	2	4.5
Sulfuryl fluoride	SO2F2	-	-	800

(-) means that there is response but no tested value



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