

Natural Gas Detector



— Confined Space Monitoring



— Leak Investigation



— Bar Hole Sampling



— Line Purge Testing

1 Monitor
4 Functions



Actual Size

GX-2012



3 Operating Modes



3 Operating Modes



Normal Operating Mode



Leak Check Mode

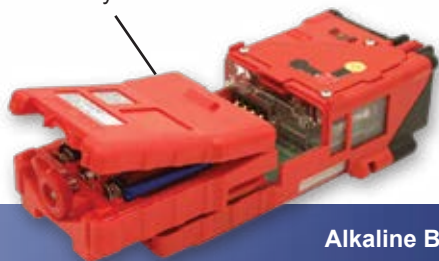


Bar Hole Mode

Specifications

Gas Detected	Combustible Gases (Methane as standard)	% Volume Methane	Hydrogen Sulfide	Oxygen (O ₂)	Carbon Monoxide (CO)
Detection Principle	Catalytic combustion	Thermal conductivity	Electrochemical cell	Galvanic cell	Electrochemical cell
Detection Range	0 ~ 100% LEL	0 ~ 100% Vol.	0 ~ 100 ppm	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	± 5% of reading or ± 2 ppm H ₂ S	± 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	1st 5 ppm 2nd 30 ppm TWA 1.0 ppm STEL 5 ppm Over 100 ppm	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 (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, c CSA _{US} classified (pending), as intrinsically safe. Class I, Division 1, Groups A, B, C, D				
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				

Easy access to alkaline batteries



Alkaline Battery Pack



Li-ion Battery Pack

Ordering Info & Accessories

Part Number	Description
72-0290-01-A	GX-2012, 1 sensor, LEL base with alkaline battery pack
72-0290-02-A	GX-2012, 1 sensor, O2 base with alkaline battery pack
72-0290-03-A	GX-2012, 1 sensor, H2S base with alkaline battery pack
72-0290-04-A	GX-2012, 1 sensor, CO base with alkaline battery pack
72-0290-08-A	GX-2012, 2 sensor, LEL / O2 base with alkaline battery pack
72-0290-09-A	GX-2012, 2 sensor, LEL / H2S base with alkaline battery pack
72-0290-10-A	GX-2012, 2 sensor, LEL / CO base with alkaline battery pack
72-0290-12-A	GX-2012, 2 sensor, O2 / CO base with alkaline battery pack
72-0290-16-A	GX-2012, 3 sensor, LEL / O2 / H2S base with alkaline battery pack
72-0290-17-A	GX-2012, 3 sensor, LEL / O2 / CO base with alkaline battery pack
72-0290-18-A	GX-2012, 3 sensor, LEL / % volume CH4 / O2 base with alkaline battery pack
72-0290-22-A	GX-2012, 4 sensor, LEL / O2 / H2S / CO with alkaline battery pack
72-0290-23-A	GX-2012, 4 sensor, LEL / % volume CH4 / O2 / CO base with alkaline battery pack
72-0290-23-A	GX-2012, 4 sensor, LEL / % volume CH4 / O2 / H2S base with alkaline battery pack
72-0290-23-A	GX-2012, 5 sensor, LEL / % volume CH4 / O2 / H2S / CO base with alkaline battery pack
Note: Replace "A" with "C" if you want to purchase the Li-Ion Battery Pack and 100 - 240 VAC charger	



Calibration Kits



Bar Hole Probe



Confined Space Kit

SDM-2012 Calibration Stations

- Stand-alone station (no PC Required)
- Charging
- Calibration
- Bump Test
- Save Bump Test and Calibration records



Charging Cradle

CONFINED SPACE ENTRY

- Monitor ppm LEL, O₂, H₂S and CO
- Smallest 5 sensor sample draw instrument
- Internal sample pump
 - ◊ *Pull samples up to 50'*
 - ◊ *Maintains steady sample flow to sensors*
- Vibration, audible, and visual alarms
 - ◊ *3 Ways to communicate with workers*
 - ◊ *Includes audible alarm silence*



LEAK INVESTIGATION

- Provides low ppm detection of combustible gas
- Compact size
 - ◊ *Ideal for in home appliance leak checks*
- Leak check blink rate
 - ◊ *LED's and alarm tones increase in frequency as gas concentration increases*
 - ◊ *Easier to find leak sources*
- Audible alarm silence
 - ◊ *Perform leak investigations without alarming residents*

BAR HOLE SAMPLING

- Samples on demand
 - ◊ *Take samples when you're ready*
 - ◊ *Fixed time sampling periods*
 - ◊ *Displays peak reading after sampling*
 - ◊ *Locate leaks quicker, more accurately*
- Bar hole probe
 - ◊ *Prevents underground fluids and obstructions from entering sample system.*



LINE PURGE TESTING

- Thermal conductivity sensor
 - ◊ *0 to 100% volume Methane range*
- Autoranging
 - ◊ *Displays appropriate unit of measure*
- Oxygen sensor
 - ◊ *Linear response down to 0.0% oxygen*

Who Is RKI Instruments?

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

At The Heart Of Every Gas Detector Is The Sensor

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

Product Development

Through ingenuity and years of industry experience, we have developed a unique line of gas detection instruments and accessories. The GX-2012 was designed specifically for the Natural Gas Utility Industry and built around our own high quality, long lasting sensors.

Support

The average RKI employee has over 11 years of gas detection experience. When you call RKI for support you will speak to a person with an expertise in gas detection equipment. We maintain a large inventory of product and can ship most orders within 24 hours. RKI also provides support through a network of authorized safety equipment distributors, technical sales representatives, and service centers.

Training

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



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