



# PERSONAL FOUR GAS MONITOR

**Model GX-2012**  
**Model GX-2012GT**



## APPLICATION

- Personal monitoring
- Confined spaces
- Refineries/petrochemical/wastewater treatment
- Utilities
- Chemical plants
- Hazardous material
- Water
- Fire services
- Mining

## FEATURES

- Monitors LEL, and % volume combustibles, O<sub>2</sub>, CO and H<sub>2</sub>S (GX-2012)
- Monitors ppm, LEL, and % volume combustibles, O<sub>2</sub> and CO (GX-2012GT)
- ppm leak detector, detects down to 10 ppm CH<sub>4</sub> (GX-2012GT)
- "Leak tracker" audible/visual alarm mode (GX-2012GT)
- 0 to 100% volume methane option
- Auto-ranging display of % LEL and % volume
- Barhole test mode
- Snap-logging-on demand data recording
- Pump pause on demand extends battery life
- Vibration, visual, and audible alarms
- Lithium ion or alkaline power source (interchangeable)
- Up to 600 hours of datalogging with alarm tends
- Intrinsically safe, ATEX/IECEX/CE
- High dust and water resistance design



ISO 9001 95QR-007  
ISO 14001 97ER-005

TOKYO PLANT • OKEGAWA MANUFACTURING  
DIVISION • HAKODATE FACTORY

**RIKEN KEIKI Co., Ltd.**

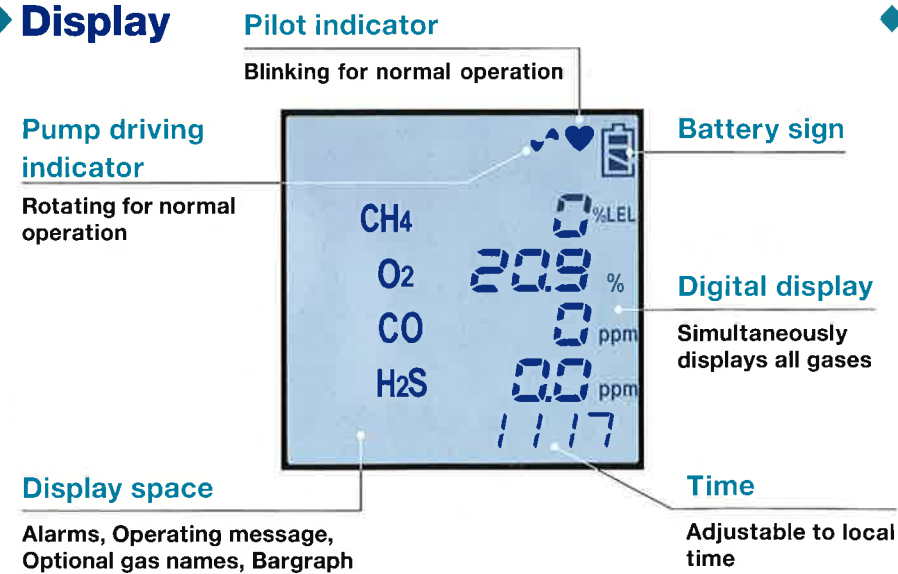


# GX-2012 COMPONENT DESIGNATIONS

Built around high-quality micro-sensor technology, the GX-2012 is Riken's smallest personal 5 sensor gas monitor with a built in sample pump. Weighing only 360g, two operating modes: Normal (for confined spaces) and bar hole. The GX-2012 can monitor the standard confined space gases (LEL combustibles, Oxygen content, Carbon Monoxide, and Hydrogen Sulfide), and it can also measure 100% volume Methane and dynamically display either % LEL, or % volume with its auto-ranging. The GX-2012 can be used for gas line purge testing as well as standard safety testing.



## ◆ Display



## ◆ GX-2012 gas combination available

Five sensor	Type A	LEL / % Vol / O <sub>2</sub> / CO / H <sub>2</sub> S
Four sensor	Type B	LEL / O <sub>2</sub> / H <sub>2</sub> S / CO
	Type C	LEL / O <sub>2</sub> / H <sub>2</sub> S
Three sensor	Type D	LEL / O <sub>2</sub> / CO
	Type E	LEL / % Vol / O <sub>2</sub>
Two sensor	Type F	LEL / O <sub>2</sub>

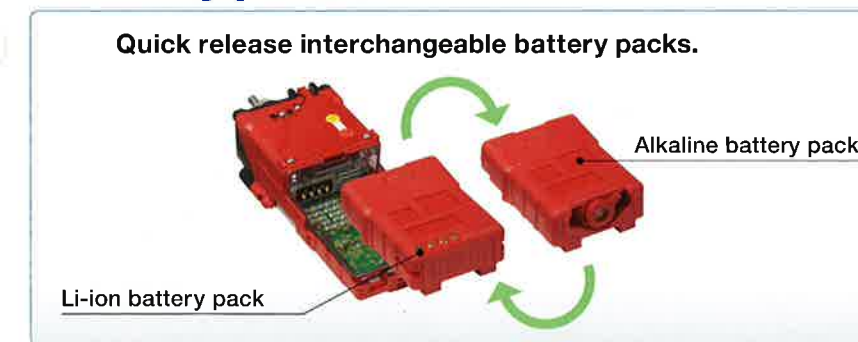
Please specify gas combination when ordering.

# GX-2012GT COMPONENT DESIGNATIONS

Built around high-quality micro-sensor technology, the GX-2012GT is Riken's smallest personal 5 sensor monitor with a built in sample pump. Weighing only 360g, it has many features with set the GX-2012GT 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 CH<sub>4</sub> leak tracker mode which reads down to 10ppm. It can also measure 100% volume Methane and dynamically display either %LEL, or % volume with its auto-ranging ability. The GX-2012GT is excellent for gas line purge testing and detection of small gas leaks.



## ◆ Battery packs



## ◆ GX-2012GT gas combination available

Five sensor	Type A	PPM / LEL / % Vol / O <sub>2</sub> / CO
Four sensor	Type B	PPM / LEL / O <sub>2</sub> / CO
	Type C	PPM / LEL / % Vol / O <sub>2</sub>
Three sensor	Type D	PPM / LEL / O <sub>2</sub>

Please specify gas combination when ordering.

## ◆ Accessories

### Standard accessories

- Alkaline battery pack
- Rubber nozzle
- Wrist-strap
- Belt clip

### Optional accessories

**SDM-2012**  
Stand Alone Calibration Station

A single module calibration station for the GX-2012 and GX-2012GT portable gas monitors that can calibrate, bump test, charge, and archive data.



**Charger BC-2012**  
AC adaptor for charger BC-2012



## ◆ Specifications

## Model GX-2012

<b>Gas Detected</b>	Combustible Gases (Methane as standard)	% Volume Methane	Oxygen (O <sub>2</sub> )	Hydrogen Sulfide (H <sub>2</sub> S)	Carbon Monoxide (CO)
<b>Detection Principle</b>	Catalytic combustion	Thermal conductivity	Galvanic cell	Electro-chemical cell	
<b>Detection Range</b>	0~100% LEL	0~100% Vol.	0~40% Vol.	0~100 ppm	0~500 ppm
<b>Sampling Method</b>	Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter				
<b>Display</b>	Digital LCD with 7 segments, auto backlight during alarm				
<b>Preset Alarms (User Adjustable)</b>	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	No alarms for % Vol. CH <sub>4</sub>	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
<b>Alarm Types</b>	Gas alarms : 1st and 2nd, STEL, TWA (user adjustable) and OVER Trouble alarms : Sensor connection, low battery, low flow, circuit trouble and calibration error				
<b>Alarm Methods</b>	Gas alarms : Flashing lights, two tone buzzer, and vibration Trouble alarms : Flashing lights, trouble displayed, intermittent buzzer, and vibration				
<b>Operating Temp. &amp; Humidity</b>	-20°C to +50°C (-4°F to 122°F) 0 to 95% RH, non-condensing				
<b>Response Time</b>	Within 30 seconds (T90)				
<b>Continuous Operation</b>	Alkaline battery : 15 hours Li-Ion battery : 10 hours				
<b>Power Source</b>	Li-Ion battery pack, or 3 "AA" Alkaline battery pack ; interchangeable				
<b>Safety Rating</b>	· ATEX II 1G Ex ia IIC T4 · IECEx II 1G Ex ia IIC T4 · TIIS · CE				
<b>Dimension &amp; Weight</b>	Approx. 173(H) x 71(W) x 43(D) mm, approx. 360g (include 3 "AA" Alkaline batteries)				
<b>Standard accessories</b>	· Belt Clip · Rubber nozzle · Wrist strap · Manual · Alkaline battery pack				
<b>Optional accessories</b>	· SDM-2012 calibration stations · Sample draw hoses · Charger · Li-Ion battery pack · Alkaline dry cell (3-AA size) · Datalogging software				

Specifications subject to change without notice.

## ◆ Specifications

## Model GX-2012GT

<b>Gas Detected</b>	Combustible Gases (Methane as standard)	% Volume Methane	PPM Methane	Oxygen (O <sub>2</sub> )	Carbon Monoxide (CO)
<b>Detection Principle</b>	Catalytic combustion	Thermal conductivity	MOS/Catalytic	Galvanic cell	
<b>Detection Range</b>	0~100% LEL	0~100% Vol.	0~5000 ppm	0~40% Vol.	0~500 ppm
<b>Sampling Method</b>	Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter				
<b>Display</b>	Digital LCD with 7 segments, auto backlight during alarm				
<b>Preset Alarms (User Adjustable)</b>	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	No alarms for % Vol. CH <sub>4</sub>	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
<b>Alarm Types</b>	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				
<b>Alarm Methods</b>	Gas alarms: Flashing lights, two tone buzzer, and vibration Trouble alarms: Flashing lights, trouble displayed, intermittent buzzer, and vibration				
<b>Operating Temp. &amp; Humidity</b>	-20°C to +50°C (-4°F to 122°F) 0 to 95% RH, non-condensing				
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Specifications subject to change without notice.

★ Distributed by:

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