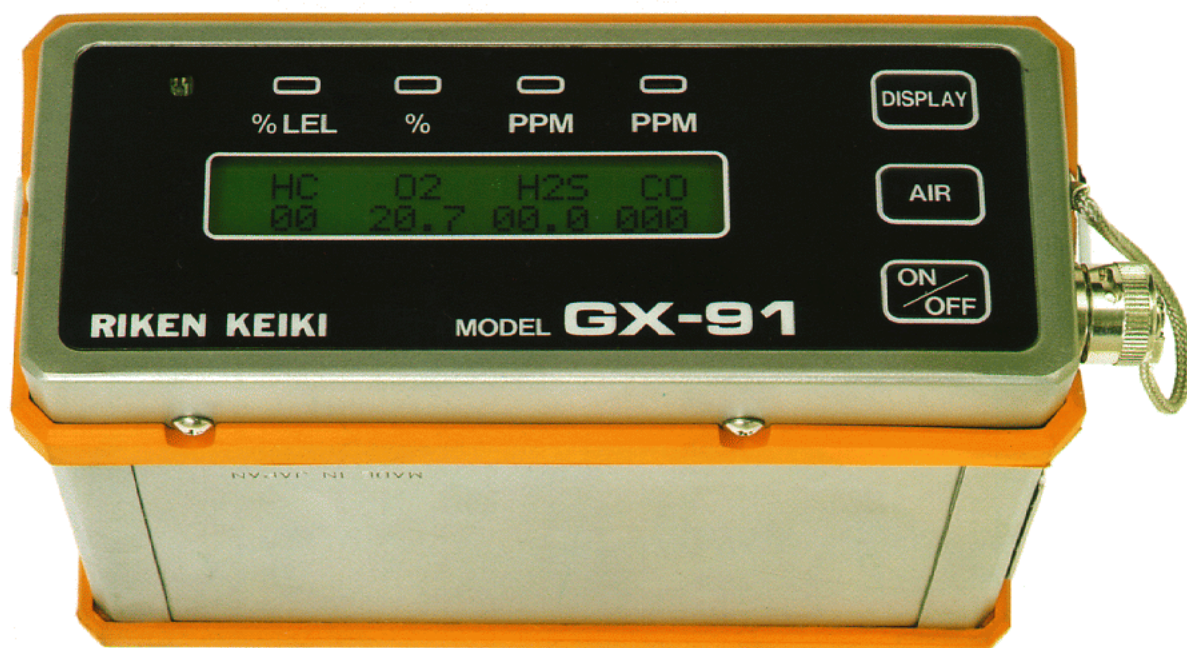


RIKEN *NEW!*

FOUR GAS PORTABLE MONITOR

Simultaneous Detection for Oxygen, Combustibles, and up to Two Toxic Gases

MODEL **GX-91B**



FEATURES

- Rugged stainless steel case
- Microprocessor controlled
- Simultaneous monitoring from two to four gases
- Radio Frequency Interference (RFI) resistant
- Push button calibration
- Internal data logger
- STEL, TWA, and Ceiling (CLG) display readouts
- Peak and Average readouts
- Easy-to-read self-illuminating LCD display
- Audible and visible alarms
- Lunch-break mode
- Intrinsically safe
- Attachable sample draw pump RP-GX-91 (Option)
- Barcode reader pen BR-91B (Option)



RIKEN KEIKI CO., LTD.

DESIGN

Gas sampling is by the diffusion principle. Sample-draw accessories for confined space testing are available. Toxic and oxygen sensors operate on the reliable, fast response electrochemical method. The combustible gas sensor provides the same performance with a catalytic design. Sensors are easy to remove from their bayonet lock mount.

A stainless steel case provides durable protection and resistance to RF interference. The case is sealed and gasketed to resist entry of dirt and liquids. A sturdy shoulder strap is standard with the GX-91B.

The instrument is powered by inexpensive "C" size user replaceable alkaline batteries making additional power as close as the nearest store. A long-life (three year) lithium battery independently powers the data logger and provides memory retention.

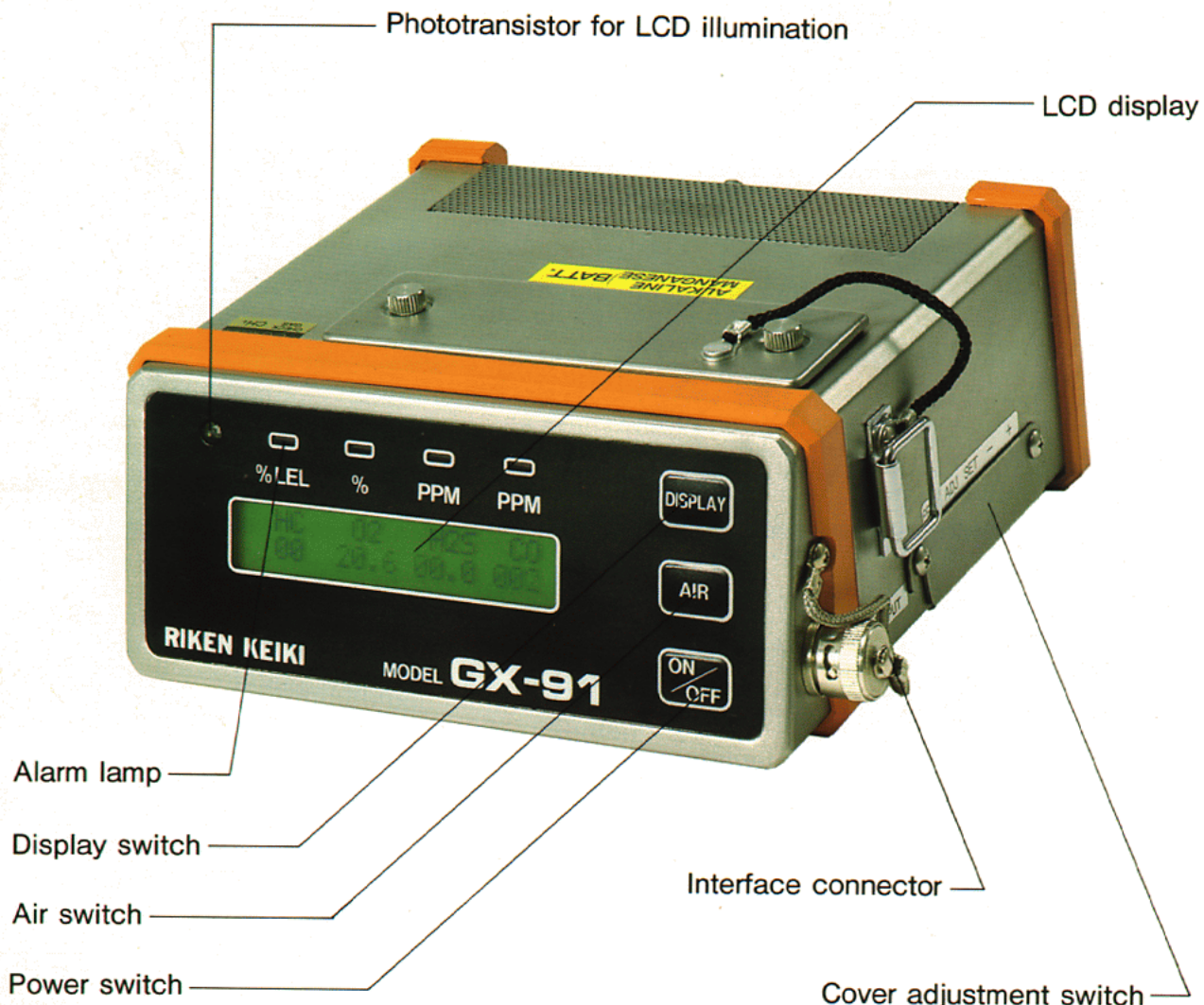
The available barcode reader gives the user an easy way to log in the location and operator data, together with the gas readings, for each set of tests. This eliminates the time loss and potential errors associated with hand-written records.

PERFORMANCE

Introducing the GX-91B, the all-in-one monitor specifically designed for use in rough field conditions. This instrument truly has it all—simultaneous and continuous four gas monitoring, data logging capabilities, water and damage resistant stainless steel casing, and easy calibration. Workers equipped with the GX-91B can, with minimal training, work freely and comfortably knowing that they will be immediately warned of hazardous or changing atmospheric conditions.

Microprocessor electronics give you easy control of the GX-91B. Only three flush mounted switches operate the monitor. Separate concealed side-mounted switches allow for push button calibration, data, time, and alarm level adjustment, instrument identification programming, and data logger interval setting. The two-line LCD display shows concentrations and other functional information. The instrument performs equally well as a free standing area monitor, or worn over the shoulder.

DESIGNATION OF EACH PART



OPTIONAL ACCESSORIES

Attachable sample-draw pump type RP-GX-91 to suit model GX-91B

The rugged dependable battery powered sample-drawing pump RP-GX-91 is now available for portable gas monitor model GX-91B. The sample draw attachment is easily installed on the body of model GX-91B.

Features

- Easy to attach
- Durable
- Reliable
- Intrinsically safe

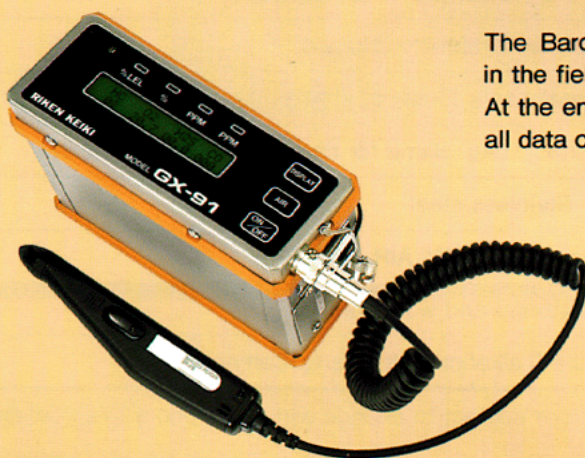


Sample-draw pump type
RP-GX-91

Specifications

Model	RP-GX-91
Principle	Diaphragm type electromagnetic driving method
Flow rate	Approx 0.5 ℓ /min with standard gas sampling probe and 1m hose at 20° C
Operating temperature and humidity range	-10° C ~ +40° C (Standard) 30 ~ 90% RH
Structure	Drip-proof structure
Continuous operation hours	More than 30 hours at 20° C
Other functions	Flow fail alarm → Buzzer continuous sound Voltage drop alarm → lamp "OFF" Power lamp → lamp "ON" Power switch → Alternate type
Power source	Alkaline battery 2 pcs
Explosion proof	Intrinsically safe ExiaIIBT3
Dimensions & weight	165(W) × 70(D) × 106(H). Approx. 1kg
Standard accessories	Gas sampling probe. Spiral tube. Alkaline battery.
Optional accessories	Ni-Cd battery., Sampling tube (straight) 1m, 5m, 10m, 15m

Barcode Reader Pen type BR-91B for model GX-91B



Barcode reader pen type
BR-91B

The Barcode Reader Pen type BR-91B is available to save paper work in the field while using the standard model GX-91B.

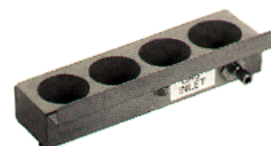
At the end of a work day, the user drops his instrument at the office where all data can be unloaded to a computer or printer.



Data connector,
CPU adaptor type
RC-1



Remote repeater alarm type
BZ-91



Sample-draw adaptor plate

SPECIFICATIONS OF NEW MODEL GX-91B

Measuring gas	All combustible gases (Methane as standard)	Oxygen	Hydrogen Sulfide	Carbon monoxide
Measuring principle	Catalytic combustion	Galvanic cell	Electro-chemical cell	
Measuring range	0~100% LEL	0~40.0 vol%	0~30.0ppm (linear) Continuing 99.5ppm	0~150ppm (linear) Continuing 499ppm
Sampling method	Diffusion, Optional sample - drawing pump			
Display	2 figures(1%LEL/digit)	3 figures (0.1vol%/digit)	3 figures(0.5ppm/digit)	3 figures(1ppm/digit)
	Digital display on LCD			
Indication accuracy	±10% of full scale at constant conditions	±0.7% vol% complies with JIS T-8201	±7% of full scale at constant conditions	±10% of full scale at constant conditions
Alarms (User adjustable)	1st alarm 10%LEL 2nd alarm 50%LEL Max alarm 100%LEL	Low alarm 19.5% High alarm 22.0% Max alarm 40.0%	1st alarm 10ppm Ceiling alarm 20ppm STEL alarm 15ppm TWA alarm 10ppm Max alarm 100ppm	1st alarm 35ppm Ceiling alarm 200ppm STEL alarm 400ppm TWA alarm 35ppm Max alarm 500ppm
Alarm method	Buzzer and individual LED lamp (self-reset)			
Special functions	Dosimeter : Indicates Time Weighted Average(TWA), Short Term Exposure Limit(STEL). Peak hold : Indicates highest readings since start up, lowest reading for oxygen. Delayed turn off : Approx. 5 seconds, prevents inadvertent turn off. Integral data logger: 5 to 90 sec. intervals, 60 hours capacity at 60 sec. intervals. Demand zero : Zero			
Operating temp. & humidity	below 90% RH			
Data logger output	Printer or computer			
Continuous operating hours	of Alkaline battery			
Power source	Alkaline battery or Ni-Cd battery			
Charging	Ni-Cd batteries externally charged.			
Explosion proof	Intrinsically safe Ex ia (d) IIBT3			
Dimensions & weight	160(W) x 65(H) x 152(D) mm, approx. 1.6kg. Same for three or four function unit			
Case material	Stainless steel			
Controls	Touch operated: DISPLAY, AIR, ON/OFF			
Warranty	One year material and workmanship			
Standard accessories	① Shoulder strap ② 2 size C alkaline batteries ③ Carrying case			

Note: STEL = Short Term Exposure Limit
 TWA = Time Weighted Average
 LEL = Lower Explosion Limit
 PPM = Parts Per Million

*Specifications subject to change without notice for improvement.



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