

RIKEN**PORTABLE MULTI-TOXIC GAS MONITOR****FOUR-RUNNER****MODEL** **GX-110B**
GX-111 (Intrinsically safe)*Continuous and simultaneous measurement
and readout of COMBUSTIBLES, O₂, H₂S and CO.***RIKEN KEIKI CO., LTD.**

FOUR-RUNNER

MODEL GX-110B

GX-111 (Intrinsically safe)

Measurement for Combustibles/Oxygen/Hydrogen Sulfide/Carbon monoxide

DESIGNATION OF EACH PART

GAS INLET

This is gas inlet port to quick-connect gas sampling hose (2 m) as standard accessory and available to connect the floating type gas sampling head as option.



FLOW MONITOR

This is for check of pump suction.

CHARCOAL FILTER

This is for absorption filter of alcohol existing in atmosphere.



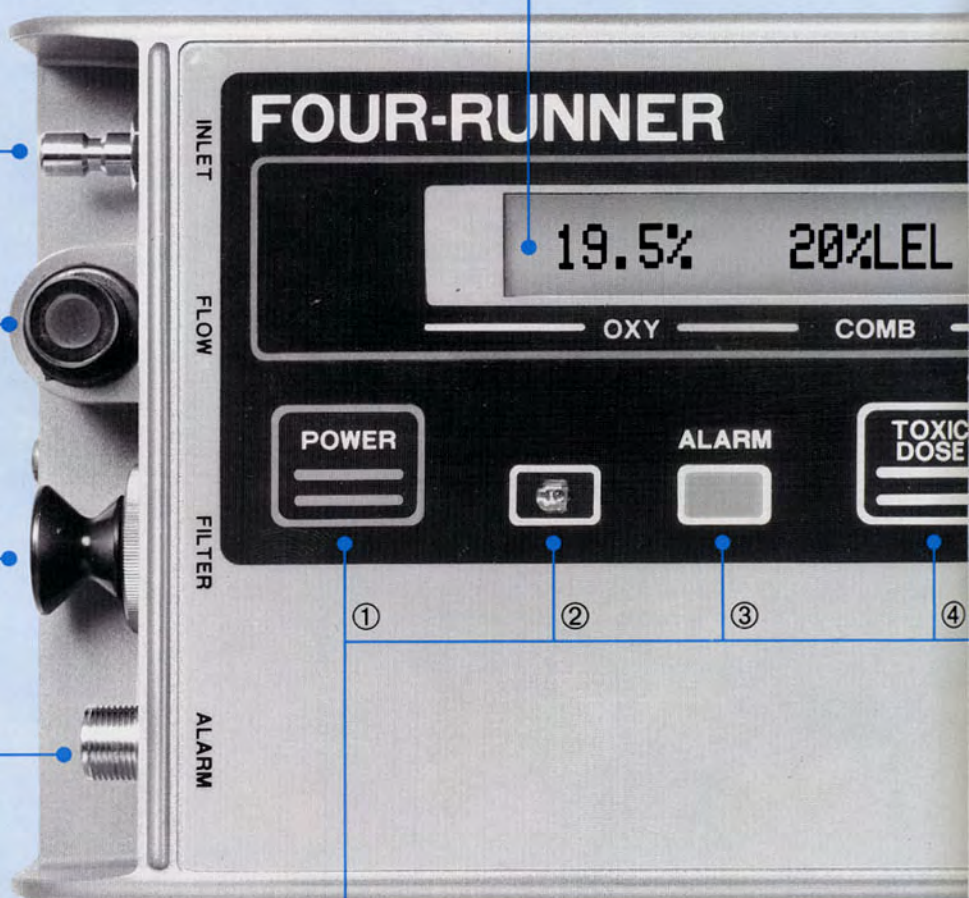
REMOTE ALARM

- Weight: 200 g
- Cord length: 8 m

Place this remote alarm near the workers if necessary. This is for safety of worker.



RUGGED LCD DISPLAY



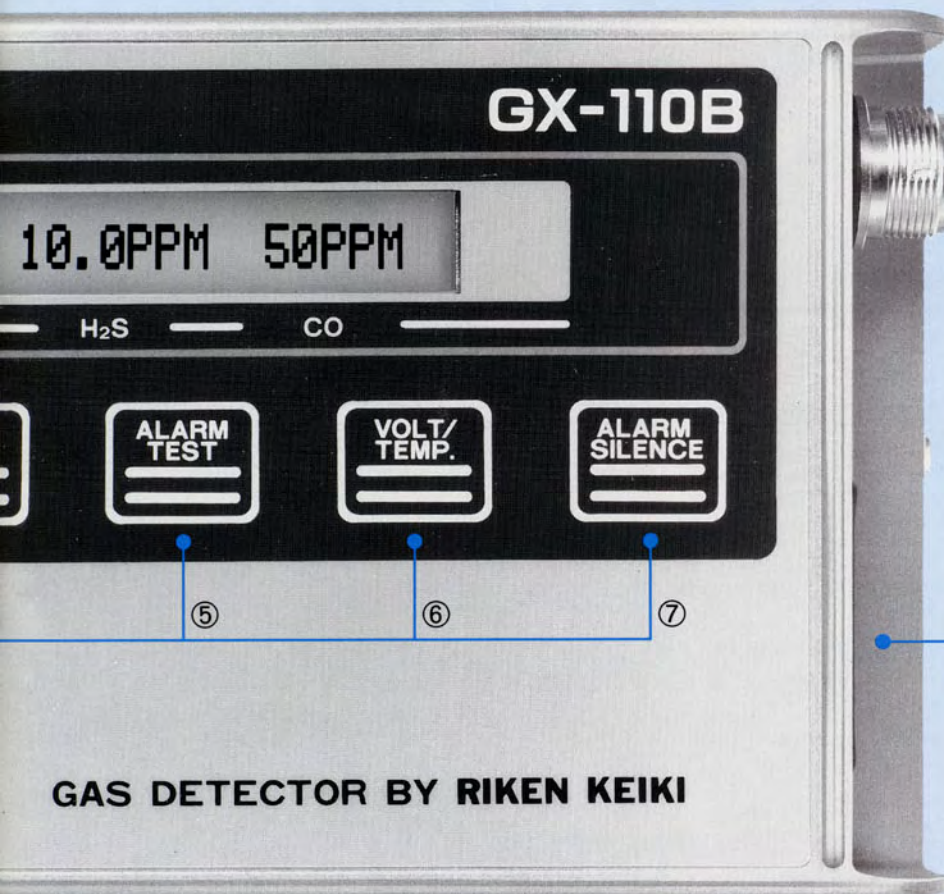
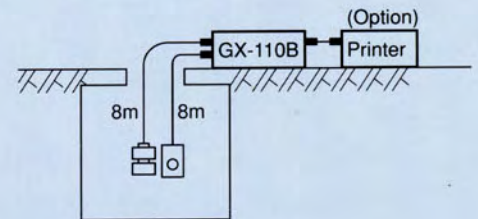
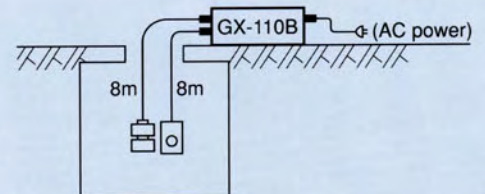
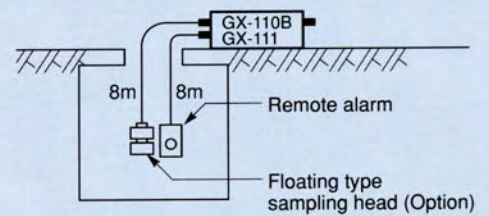
SWITCH AND ALARM LAMP

- | | |
|--|---|
| ① Power ON/OFF switch | ⑤ Alarm test switch (Check of alarm setting value and function) |
| ② Illumination window | ⑥ Volt/temp switch (Check of battery voltage and temperature periodically) |
| ③ LED alarm lamp | ⑦ Alarm silence switch (Interrupt alarm in case of continuous exposure, or reset alarm when gas conditions are removed) |
| ④ Toxic dose switch (Time-weighted average (TWA) in PPM H ₂ S and CO) | |

PERFORMANCE FEATURES

- Simultaneous 4-range readout
— Combustibles, Oxygen, Hydrogen Sulfide and Carbon Monoxide —
- Easy to use microprocessor control
- Self-illuminating LCD digital display
- Audible/visual alarms
- 10 hours continuous operation by dry battery
- Tactile control panel
- Fast accurate response
- User replaceable batteries and AC power supply (GX-110B only)
- Remote alarm capability
- Simple detachable sensor/element from instrument
- Sample-drawing system
- Time-weighted average (TWA)
- Intrinsically safe (GX-111)

• Example of system application for manholes



◆ Actual dimensions ◆

AC POWER CONNECTOR BY MODEL GX-110B ONLY

GX-110B has an access to AC power for continuous operation by use of standard accessory 5 m power cord.

The power of GX-110B gets ON by internally converting AC to DC power automatically.

CONNECTOR FOR OPTIONAL PRINTER MODEL PR-20 BY MODEL GX-110B ONLY

Optional PR-20 prints out;

1. Date and time
2. Gas concentration of four compositions at measurement
3. Temperature at measurement
4. Measuring place and identical number by a measurer

TYPICAL APPLICATIONS

refineries
drilling rigs
sulphur plants
sewage plants

nuclear facilities
drilling platforms
logging operations
pipelines

utility manholes
storage tanks
paper mills
dye works

chemical plants
tunnels
mines
tanneries

Call us for consultation on your application.

Note:

AC POWER CONNECTOR and CONNECTOR FOR OPTIONAL PRINTER are not provided for GX-111 due to its intrinsically safe design.

SPECIFICATIONS FOR MODEL GX-110B/GX-111

Gas name		Oxygen (O ₂)	Combustible gas	Hydrogen sulfide (H ₂ S)	Carbon monoxide (CO)
Detection method		Electrochemical cell	Catalytic combustion	Electrochemical cell	Electrochemical cell
Measuring range		0 ~ 25.0 vol% (0.1 vol%/digit)	0 ~ 100% LEL (1 %/digit) (Calibrated on CH ₄)	0 ~ 30 ppm (0.5 ppm/digit) Continuing 125 ppm (1 ppm/digit)	0 ~ 100 ppm Continuing 250 ppm (1 ppm/digit)
Accuracy		±0.7 vol% (Complies to JIS T8201)	Within ±5% LEL	Within ±1.5 ppm (Complies to JIS T-8205)	Within ±10 ppm
Alarm preset point		18.0 vol%	20% LEL	10.0 ppm	50 ppm
Alarm method		Monitor : Audible/visual alarms Remote alarm : Audible/visual alarms			
Alarm functions		1. Alarm setting: Audible/visual alarms 2. Low battery condition, drop of sample flow, circuit trouble, sensor trouble, over scale range: Audible/visual alarms			
Sampling method		Sample-drawing by built-in pump			
Dosimeter function		With "TOXIC DOSE" switch, the program will divide the stored accumulation by the elapsed time, and the display will show the time-weighted average in PPM H ₂ S and CO, as well as the elapsed time.			
Response time		Less than 30 sec. to get 90% response (based on use of 2m sampling tube)			
Power source	GX-110B	Carbon zinc or alkaline battery (6 pcs) and AC 117V, 220V or 240V (Please specify when ordering)			
	GX-111	Carbon zinc or alkaline battery (4 pcs)			
Continuous operating hours		More than 10 hours when using carbon zinc batetery at 20°C More than 16 horus when using alkaline battery at 20°C			
Operating temperature & Humidity		-10°C ~ 40°C, Less than 95% RH			
Explosion proof (GX-111)		Intrinsically safe id ₂ G ₃ in Japan			
Dimensions & weight		255(W) × 121(H) × 175(D), Less than 4.5 kg including standard accessories			

Specifications subject to change without notice.

ACCESSORIES

Standard accessories	1) Gas sampling probe with 2m 1 pce. 2) Power cord with 5m (GX-110B) 1 pce. 3) Remote alarm with 8m cord 1 pce. 4) Carrying case 1 pce. 5) Charcoal filter 1 pce. 6) Carbon zinc battery for GX-110B 6 pcs. Carbon zinc battery for GX-111 4 pcs. 7) Screwdriver (-) 1 pce. 8) Instruction manual 1 sheet
Optional accessories	1) Printer model PR-20 for GX-110B 2) Printer paper for model PR-20 (GX-110B only) 3) Charcoal filter (5 pcs/pack) 4) Floating type sampling head with 8m hose * * This is applied at the place where water may be sampled into the instrument together with detecting gas.



3)



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ISO 9001:2000

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