



Portable 4 Gas Detector

CH₄
or
HC

O₂

CO

H₂S

MODEL:

GX-Force

This gas detector is designed to assure safety.

The GX-Force features a rugged and easy-to-hold body, a 3-year sensor warranty, and 30-hour battery life. These attributes help assure safety.

- Easy-to-grip lightweight design; Approx. 300 g
- Three-year sensor warranty
- Intrinsically safe explosion-proof construction, flame-proof enclosure
- Continuous operating time: Approx. 30 hours
- Passes 3 m drop testing
- Protection level equivalent to IP67

GX-Force

Assured peace
of mind

Sensor
warranty

3
years

Utilizes R Sensor for outstanding
long-term stability.
Three-year sensor warranty.
Allows use with peace of mind.

Designed for
ease of use

Continuous
operating
time

Approx.

30 hours

No need for daily recharge.
(Approx. three times longer than previous model)
Charger connector type: USB Type-C



LED
light

Features top-mounted LED light.
Helps work with a peace of mind in dark locations.



Light-
weight
design

Functionality-oriented
design

Approx.

300 g

Easy-to-grip design.
Lightweight design allows easy one-handed button operation.
(Approx. 16 % lighter than previous model)

Outstanding
durability



Passes **3 m**
drop testing



Protection level
equivalent to **IP67**



Operating temperature range
-40 to +60 °C
(temporary use environment)



Wide range of safety functions

Combustible gas conversion function

Eliminates the need for troublesome calculations. Allows direct readout of 27 different combustible gas types. * Settings are retained even when power is turned on and off.

Combustible gases conversion list

Gas type	Conversion from CH ₄ models	Conversion from HC models	Gas type	Conversion from CH ₄ models	Conversion from HC models	Gas type	Conversion from CH ₄ models	Conversion from HC models	Gas type	Conversion from CH ₄ models	Conversion from HC models	Gas type	Conversion from CH ₄ models	Conversion from HC models
Methane	—	×	Ethane	○	×	Cyclopentane	○	○	N-nonane	○	○	Methyl isobutyl ketone	○	○
Isobutane	○	—	Ethanol	○	○	Benzene	○	○	Ethyl acetate	○	○	Tetrahydrofuran	○	○
Hydrogen	○	○	Propylene	○	○	N-hexane	○	○	Isopropyl alcohol	○	○	Normal pentane	○	○
Methanol	○	○	Acetone	○	○	Toluene	○	○	Methyl ethyl ketone	○	○			
Acetylene	○	○	Propane	○	×	N-heptane	○	○	Methyl methacrylate	○	○			
Ethylene	○	○	Butadiene	○	○	Xylene	○	○	Dimethyl ether	○	○			

Alarm setpoint setting function

Settings can be changed/configured on the GX-Force main unit. Supports control and management in accordance with the customer's own criteria.

Confirmation beep function

Indicates that the product is functioning normally. The buzzer sounds at preset intervals while measurement is underway.

Calibration notification function

Indicates the number of days until recommended regular maintenance when the power is turned on. Reminds the user to perform maintenance to ensure safe use.

New R Sensor for outstanding long-term stability

The GX-Force incorporates/utilizes the newly developed R Sensor sensor series. The R Sensor features dramatically improved performance over conventional sensors. The sensors are covered by a three-year warranty* for peace of mind.

* Assumes the sensor is inspected at least once a year.



Combustible gas

Tough construction with excellent toxicity and impact resistance



O₂

Electrochemical type with greatly improved basic characteristics



CO & H₂S

2-in-1 dual construction for compact main unit



CO

Two-sensor configuration minimizes H₂ interference

Extensive range of optional items

The optimal combination can be selected to suit requirements.

Can be fitted in place of the tapered nozzle (option) to allow readings to be checked even from a distance.



For measurements inside tanks

Float-type gas collector

(Tube length: Approx. 8 m)
Part No.: 4384 0430 60



For measurements in specific locations within reach

Gas sampling rod and Gas sampling tube

(Gas sampling tube length: Approx. 75 cm)
Part No.: Gas sampling rod: 0904 0275 00
Gas sampling tube: 0914 0100 00



For measurements in high locations

Two-stage sampling rod

Part No.: 4383 0730 80



AC adapter

Part No.: 2594 1342 30



Tapered nozzle

Part No.: 4126 4948 20



Hand strap

Part No.: 0888 0605 90



Belt clip

* With two attachment screws
Part No.: 4711 9954 30



Data logger management program

* A separate USB cable (option) is required to use this.
Part No.: 9812 0020 10 (IECEX/ATEX model)
9812 0010 10 (Japan Ex model)



USB cable (Type-A - Type-C, 1 m)

* Required when using the data logger management program (option)
Part No.: 2440 2728 90

Protective film (set of 5)

Part No.: 4777 9296 50

Specifications

Model	GX-Force
Sampling method	Suction type
Suction flow rate	Minimum 0.35 L/min (open flow rate)
Gas alarm pattern	Lamp flashing, continuous modulating buzzer sounding, gas concentration display flashing, vibration
Gas alarm reset operation	Self-latching
Fault alarm/self-diagnosis	System, clock, or sensor abnormality; battery voltage drop; calibration failure; pump abnormality; low flow rate
Fault alarm pattern	Lamp flashing, intermittent buzzer sounding, detail display
Fault alarm reset operation	Self-latching
Display	LCD digital (7-segment + 14-segment + icons) with backlight
Individual operations	Operational status, clock, battery level, peak reading, pump status, calibration notification
Sound pressure	Approx. 90 dB (30 cm)
Data logger function	Maximum storage capacity: 3,600 items Interval: 5 minutes (adjustable)
Communication specifications (for data logger)	USB2.0 (Connector: Type-C)
Power source	Rechargeable lithium ion battery
Continuous operating time ^{*1}	Approx. 30 hours (fully charged, 25 °C, no alarm, no lighting)
Operating ambient temperature/humidity range ^{*2,3}	-40 to +60 °C (no sudden changes), 0 to 95 %RH (no condensation)
Explosion-proof construction	Intrinsically safe explosion-proof construction, flame-proof enclosure IECEX/China Ex (Ex da ia IIC T4 Ga) ATEX (II 1 G Ex da ia IIC T4 Ga) Japan Ex (Ex da ia IIC T4 Ga)
Certifications	CE marking, JIS T 8201, JIS T 8205, JIS T 8206 ^{*4}
Protection level	IP67 equivalent
External dimensions/weight	Approx. 64 mm (W) × 173 mm (H) × 47 mm (D) (excluding protrusions) / Approx. 300 g

*1 Varies depending on sensor type installed. Please contact RIKEN KEIKI for more information.

*2 In temporary ambient conditions for approximately 15 minutes. The operating temperature and humidity ranges for continuous ambient conditions are as follows:
Temperature: -20 to +50 °C (no sudden changes) / Humidity: 10 to 90 %RH (no condensation)

*3 The operating temperature range in which explosion-proof performance is maintained is as follows: Temperature: -20 to +60 °C (no sudden changes)

*4 For CH₄ combustible gas

Detection target gases

Detection target gas	Combustible gas (CH ₄ or HC)	Oxygen (O ₂)	Carbon monoxide (CO)	Hydrogen sulfide (H ₂ S)
Detection principle	New ceramic type (catalytic type)	Electrochemical type		
Display range	0 – 100 %LEL	0.0 – 40.0 vol%	0 – 2,000 ppm	0.0 – 200.0 ppm
Detection range	0 – 100 %LEL	0.0 – 25.0 vol%	0 – 500 ppm	0.0 – 100.0 ppm
Resolution	1 %LEL	0.1 vol%	1 ppm	0.1 ppm
Alarm setpoints (User-defined setting)	1st alarm: 10 %LEL 2nd alarm: 25 %LEL 3rd alarm: 50 %LEL OVER alarm: 100 %LEL	L alarm: 19.5 vol% LL alarm: 18.0 vol% H alarm: 23.5 vol% OVER alarm: 40.0 vol%	1st alarm: 25 ppm 2nd alarm: 50 ppm 3rd alarm: 1,200 ppm TWA alarm: 25 ppm STEL alarm: 200 ppm OVER alarm: 2,000 ppm	1st alarm: 5.0 ppm 2nd alarm: 30.0 ppm 3rd alarm: 100.0 ppm TWA alarm: 1.0 ppm STEL alarm: 5.0 ppm OVER alarm: 200.0 ppm
Response time (T90)	CH ₄ : Within 30 seconds HC: Within 40 seconds	Within 20 seconds	Within 30 seconds	Within 30 seconds

Type list

TYPE	Detection target gas/ Sensor	CH ₄ or HC NCR-6309	O ₂ ESR-X13P	H ₂ S & CO ESR-A1DP	H ₂ S ESR-A13i	CO ESR-A13P	Reduced H ₂ interference CO ESR-A1CP
4-component	TYPE A	○	○	○			
3-component	TYPE B	○	○		○		
3-component	TYPE C	○	○			○	
3-component	TYPE CH	○	○				○
2-component	TYPE D	○	○				

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※ The contents described in this catalog are subject to change without notice according to the performance improvement.

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