

6-Component Gas Detector with PID Sensors

for enhanced

safety



MODEL:

Features PID sensors to enable VOC detection.

State-of-the-art 6-component gas detector for use across a wide range of conditions

- Simultaneous detection of up to 6 gases: HC/CH₄, O₂, CO, H₂S, VOC, CO₂, NH₃, etc.
- Bluetooth® equipped! Easy data management via smartphone (option)
- High-performance gas sensors with up to 3-year warranty
- Runs for approximately 28 hours with a single charge (approximately twice as long as previous models)
- Detects combustible gases from ppm to vol% with a single unit

CE marking

RIKEN KEIKI Co., Ltd.

Portable 6-Component Gas Detector MODEL:

GX-6100

Easy to carry

Handy size

The handy 6-component GX-6100 detector combines both portability and functionality. Includes a panic alarm and man down alarm, in addition to gas alarms, to ensure worker safety.

With PID sensors

For rapid response even for low-concentration gases

PID sensors can be installed to detect VOCs and a wide range of other gases at low concentrations down to the ppb range. Incorporates a gas list of approximately 680 different types, allowing gas concentrations to be read off directly.

* PID: Acronym for photoionization detector

For chemical substance

Risk assessmen

The Industrial Safety and Health Act mandates risk assessments* when handling chemical substances, regardless of work site dimensions. The GX-6100 (with PID sensors) enables measurement of approximately 200 different chemical substances covered by the risk assessment regulations. It provides direct concentration readings using a single unit.

* Examining the hazards and harmful effects of handling chemical substances and considering measures to prevent workplace accidents

with a single unit

Greater number of gases

Allows simultaneous detection of multiple gases using a single unit instead of requiring

multiple gas detectors and detector tubes.



Compatible with "R Sensor"

Next-generation high-performance sensors offer greatly improved performance and durability.





POWER/ENTER

R RIKEN KEIKI GX-6100





Tough construction Electrochemical

n excellent type with greatly city and impact improved basic



gas types



Simultaneous detection gases



PH₃





















Ability to detect up to 2 gas types simultaneously

Features newly added ppm range and vol% range sensors for combustible gases.



Longer warranty for peace of mind

Utilizes R Sensor for outstanding long-term stability. Up to three-year sensor warranty*. Allows use with peace of mind.

* R Sensor series only. Warranty for other sensors is one

Rapid information sharing in emergencies

Panic alarm function

An alarm activated manually when a worker senses a hazard or emergency situation.

It can be used to prompt rapid assistance and response from others in the vicinity.



Man down alarm function

An alarm triggered automatically when a worker remains motionless for a certain period of time.

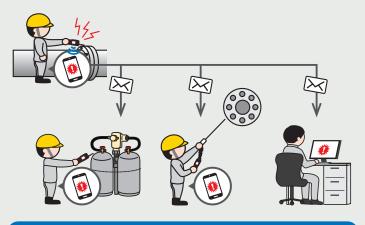
The alarm rapidly alerts those in the vicinity to a worker's abnormal condition and enables rapid response.



Bluetooth® equipped* Allowing on-site information to be shared remotely (Models for EU, US, Canada, and Japan only)

Bluetooth® can be used for communication with smartphones. Allows alarms to be issued to remote locations in real time to notify emergency situations using the dedicated RK Link app. The RK Link app can be downloaded free of charge from Google Play or Apple Store.

* Bluetooth® functionality is available only in countries and regions that comply with the Radio Law (EU, US, Canada, and Japan). Please specify when ordering if you require Bluetooth® functionality.



Linking with smartphones via Bluetooth®

Easy data management via smartphone

The snap logger function can be used to easily record measurements and save them to the app. Saved position data and gas concentrations can be sent automatically to preset email addresses.





Handy features for ease of use

Combustible gas conversion function

Models with new ceramic type combustible gas sensors installed can be used to directly read off up to 27 different combustible gas types.

- * Provided no thermal conductivity sensor is installed.
- * Conversion to methane, ethane, and propane is not possible with isobutane models.

Gas name	Display
Guo Hamo	name
Methane	CH ₄
Isobutane	i-C ₄ H ₁₀
Hydrogen	H ₂
Methanol	CH₃OH
Acetylene	C2H2
Ethylene	C ₂ H ₄
Ethane	C ₂ H ₆

Gas name	Display
uas name	name
Ethanol	C ₂ H ₅ OH
Propylene	C3H6
Acetone	C3H6O
Propane	C ₃ H ₈
Butadiene	C ₄ H ₆
Cyclopentane	C5H10
Benzene	C ₆ H ₆

Gas name	Display
uas name	name
N-hexane	n-C ₆ H ₁₄
Toluene	C7H8
Heptane	n-C7H16
Xylene	C8H10
N-nonane	n-C9H20
Ethyl acetate	EtAc
Isopropyl alcohol	IPA

Gas name	Display
uas name	name
Methyl ethyl ketone	MEK
Methyl methacrylate	MMA
Dimethyl ether	DME
Methyl isobutyl ketone	MIBK
Tetrahydrofuran	THF
N-pentane	n-C5H12

Snap log

button

Screen display inversion

The screen display flips 180° automatically to match the orientation of the unit. This prevents errors when reading off the display.





Alarm setpoint setting function

Use the setting program to change/edit settings. Supports management and operation in accordance with the customer's own criteria.

Confirmation beep function

Indicates that the gas detector 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.

Continuous operating time: Approx. 28 hours

Allows use for extended periods without worrying about battery depletion, providing reliable safety management support.

 $Blue tooth ^{\circledast} \ and \ the \ Blue tooth ^{\circledast} \ logo \ are \ registered \ trademarks \ of \ Blue tooth \ SIG, \ Inc. \ and \ are \ used \ by \ RIKEN \ KEIKI \ under \ license.$

The 'RK Link' app can be downloaded from Google Play or Apple Store free of charge!





Google Play and the Google Play logo are trademarks of Google LLC.

Apple and the Apple logo are trademarks of Apple Inc. registered in the U.S. and other countries and regions. App Store is a service mark of Apple Inc. registered in the U.S. and other countries

Accessories

Tapered nozzle

Part No.: 4777 4057 20



Protect cover

Part No.: 4777 4035 00



Belt clip

Part No.: 4777 9099 00





For measurements in specific locations within reach

Protective film

To protect the LCD Part No.: 4777 4068 90



Hand strap

Part No.: 0888 0605 90



Charger/AC adapter

Part No.: BC-6000 (00)

*Included with rechargeable battery models (IECEx/ATEX models also include adapter plug [type C].)



AA alkaline batteries ×3

Part No. (single battery): 2753 3007 80

* Included with dry battery models



Fresh air adjustment filters

*Inclusion and type will differ depending on specifications.



Optional accessories

Batteries

Dry battery unit (BUD-6100)/ AA alkaline batteries

Allows use even in emergencies simply by inserting dry cell batteries.

Dry battery unit (BUD-6100)

Part No.: 4777 39

AA alkaline battery

Part No. (single battery): 2753 3007 80



Lithium ion battery unit (BUL-6100)/ Charger/AC adapter

The battery unit can be recharged for repeated use.

Lithium ion battery unit (BUL-6100)

Part No.: 4777 38 Charger/AC adapter Part No.: BC-6000 (00)



Gas sampling rod/tubes*

Gas sampling rod/Gas sampling tubes

Gas sampling rod

Part No.: 0904 0275 00

Gas sampling tubes

75 cm

Part No.: 0914 0135 30

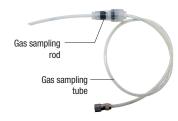
Part No.: 0914 0136 10

10 m

Part No.: 0914 0137 80

Part No.: 0914 0138 50

Part No.: 0914 0139 20



Sampling tubes with float

The waterproof filter inside the float separates water to allow gas detection. Ideal for locations where water is present at the detection point.

20 m

Part No.: 4777 9368 60 Part No.: 4777 9375 30

Part No.: 4777 9374 60

Part No.: 4777 9376 10





For measurements inside tanks

Two-stage gas sampling rod

Extends up to approximately 70 cm to enable measurements in hard-toreach locations. (Retracted length: approx. 40 cm / Overall length: approx. 70 cm)

Part No.: 4383 0730 80





elevated locations



ES France - Département Bio-tests & Industries 127 rue de Buzenval BP 26 - 92380 Garches

Tél. 01 47 95 99 90

e-mail : bio@es-france.com Site Web : www.es-france.com

Management software/cable

Infrared communication port (IR001)

For infrared communication between the gas detector and a PC. Used when using the software program Part No.: 2594 1262 80



Data logger management program

Software used to view and manage measurement results and logs of events such as alarms and adjustments

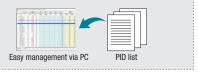
Part No.: (IECEx/ATEX models) 9812 0060 70 (Japan Ex models) 9812 0050 80



results (graph)

Setting program

Use the setting program for the GX-6100 to configure settings and edit a VOC sensor gas list of more than 600 different gas types. This can be downloaded free of charge from the RIKEN KEIKI



Maintenance parts and other items

Tube holder

For VOC sensors (10.0 eV). Used when using the prefilter tube

Part No.: 0904 0284 10



results (table)

Prefilter tube

For VOC sensors (10.0 eV). Interference gas removal filter for selective detection of benzene

Part No.: 1879 2231 10



Lamp cleaning kit

For VOC sensors. Used for cleaning when the sensor sensitivity is reduced due to internal fouling

Part No.: 9030 4017 20



UK/Type BF

Pellet removal tool

For VOC sensors. Used to remove internal components when cleaning inside the sensor

Part No.: 9030 4007 30



Adapter plugs

To convert the Type A plug of the AC adapter to Type C, Type O, and Type BF plugs

EU/Type C Part No.: 2594 1435 00



AU/Type 0 Part No.: 2594 1434 20





Protective film

To protect the LCD (set of 5) Part No.: 4777 9064 60

Filters (replacement)

Please contact RIKEN KEIKI for more information.

Using a **prefilter tube** allows selective detection of benzene!

VOC sensors (10.0 eV) with high selectivity can be used together with a proprietary prefilter tube that removes interfering substances such as toluene to enable selective detection of benzene at extremely low concentrations.



without prefilter tube.

Main substances that can be removed by the prefilter tube:

Toluene, xylene, ethyl benzene, acetone, hydrogen sulfide



Normal mode

Check for presence of VOCs including benzene



Benzene select mode

Attach the prefilter tube to selectively detect benzene by removing interference gases.

Benzene concentration can be checked using the prefilter tube, if needed, for improved work efficiency.

Tube holder Safe, convenient tube cutter

The end of the tube can be cut as required. No separate cutter is required.



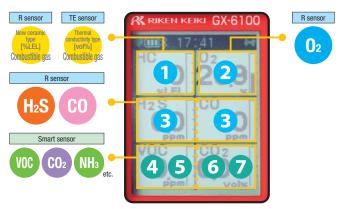
minimizes the risk of damage to the gas detector if subjected to an impact, allowing use with peace of

*A VOC sensor (10.0 eV) must be installed to use benzene select mode and the prefilter tube. For more information, refer to the 'Product code table' and 'Sensor specifications'.

Sensors

Sensor selection

Up to six different sensors can be installed Refer to the 'Product code table' below to select the desired sensors.



^{*}When both combustible gas R sensor and TE sensor are installed, the reading for one of the sensors will be displayed, depending on the gas concentration and settings.

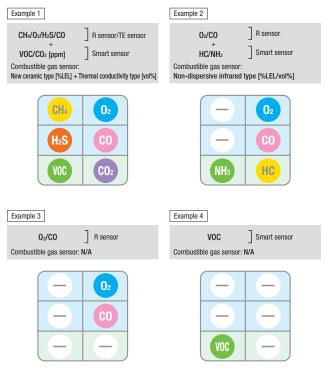
Combustible gas sensor selection

Four different types of combustible gas sensors in terms of detection principles can be installed

Select the sensors to suit the intended purpose based on their specific detection ranges and features

Detection principle	Hot-wire semiconductor type	New ceramic type	Thermal conductivity type	Non-dispersive infrared type
Detection range	ppm	%LEL	vol%	%LEL/vol%
Features	Capable of detecting low concentrations	Allows use of combustible gas conversion function	Capable of detecting high concentrations	Capable of detecting even in inert gas Can be used even where Si is present

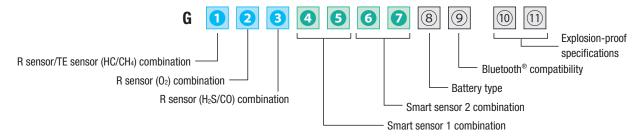
Sensor selection examples



All of these are examples. Example 1 shows the full capacity of sensors installed. Fewer sensors can be installed. Different combinations of sensors can be installed. Refer to the 'Product code table' below to select sensors.

Product code table

Select a GX-6100 product based on the sensors needed, power supply type, Bluetooth® compatibility, and explosion-proof specifications. Refer to the product table below to select the desired specifications.



1: R sensor/TE sensor (HC/CH₄) combination

Code	Sensor model (detection target gas) [units]
0	N/A
М	NCR-6309 (CH ₄) [%LEL]
Н	NCR-6309 (HC (i-C ₄ H ₁₀)) [%LEL]
D	NCR-6309 (CH ₄) [%LEL] + TE-7561 (CH ₄) [vol%]
V	TE-7561 (CH ₄) [vol%]

2: R sensor (O₂) combination

Code	Sensor model (detection target gas)
0	N/A
1	ESR-X13P (O₂)

3: R sensor (H₂S/CO) combination

Code	Sensor model (detection target gas)
0	N/A
1	ESR-A1DP (H ₂ S/C0)
2	ESR-A13i (H₂S)
3	ESR-A1CP (CO) [Reduced H₂ interference]
4	ESR-A13P (CO)

45 or **67**: Smart sensor combination

Code	Sensor model (detection target gas) [units]
00	N/A
P1	PIS-001A (VOC, 10.6 eV) [ppb]
P2	PIS-002A (VOC, 10.6 eV) [ppm]
P3	PIS-003 (VOC, 10.0 eV) [ppm]
E1	ESS-03DH (SO ₂)
E2	ESS-03DH (NO ₂)
E3	ESS-03DH (HCN)
E4	ESS-B332 (NH ₃)
E5	ESS-B335 (Cl ₂)*1
E6	ESS-03DH (PH₃)
D1	DES-3311-1 (CO ₂) [vol%]
D2	DES-3311-2 (HC (i-C ₄ H ₁₀)) [%LEL/vol%]
D3	DES-3311-3 (CH ₄) [%LEL/vol%]
D4	DES-3311-4 (CO ₂) [ppm]
S1	SHS-8661 (CH ₄) [ppm]*1 *2
S2	SHS-8661 (HC (i-C ₄ H ₁₀)) [ppm]*1 *2

^{3:} H₂S cannot be selected for the R sensor combination.

*2 6 7: Only D1, D2, D3, or D4 can be selected for the smart sensor combination

8: Battery type

Code	Specifications
L	Lithium ion battery unit BUL-6100
D	Dry battery unit BUD-6100

9: Bluetooth® compatibility

Code	Specifications
0	Bluetooth® not supported
1	Bluetooth® supported 3

^{*3:} Selectable only when using in EU, US, Canada, or Japan that complies with the Radio Law

10(11): Explosion-proof specifications

Code	Specifications
00	Japan Ex
50	IECEx/ATEX

Sensor specifications

Combustible gas sensor 1

R sensor (new ceramic type)

` ' '						
Detection target gas		Methane (CH ₄)		Isobutane (i-C ₄ H ₁₀)		
Sensor model		NCR-6309				
Explosion-proof specifications		IECEx/ATEX	Japan Ex	IECEx/ATEX	Japan Ex	
Display rang	ge	0 - 100) %LEL	0 - 100) %LEL	
Detection range		0 - 100	0 %LEL	0 - 100) %LEL	
Resolution		1 %LEL		1 %LEL		
	First alarm	10 %LEL		10 %LEL		
	Second alarm	25 %LEL	50 %LEL	25 %LEL	50 %LEL	
Alarm setpoints*1	Third alarm	50 %LEL		50 %LEL		
octpointo ·	TWA	_		_		
	STEL	_		_		
Operating temperature range*2		-20 to +50 °C		-20 to +50 °C		
Operating h	umidity range*3	10 to 90 %RH		10 to 90 %RH		

Combustible gas sensor 1

TE sensor (thermal conductivity type)

Detection target gas		Methane (CH₄)	
Sensor model		TE-7561	
Explosion-pro	oof specifications	IECEx/ATEX and Japan Ex	
Display ran	ge	0 – 100 vol%	
Detection ra	ange	0 – 100 vol%	
Resolution		1 vol%	
	First alarm	-	
Alexan	Second alarm	-	
Alarm setpoints*1	Third alarm	_	
σοιροπιο	TWA	-	
	STEL	-	
Operating temperature range ⁻²		-20 to +50 °C	
Operating h	umidity range*3	0 to 95 %RH	
		•	

Oxygen sensor 2

R sensor (electrochemical type)

it sensor (electrochemical type)				
Detection target gas		Oxygen (O ₂)		
Sensor mod	del	ESR-X13P		
Explosion-pro	oof specifications	IECEx/ATEX	Japan Ex	
Display ran	ge	0 – 4	0.0 %	
Detection ra	ange	0 – 2	5.0 %	
Resolution		0.1 %		
	First alarm	19.5 %		
	Second alarm	18.0 %		
Alarm setpoints*1	Third alarm	23.5 %	25.0 %	
octponito	TWA	_		
STEL		_		
Operating temperature range*2		-20 to +50 °C		
Operating h	umidity range ^{*3}	10 to 90 %RH		

■ Toxic gas sensor 3

R sensor (electrochemical type)

	contact (coordinating type)								
Detection to	arget gas	Hydrogen s	ulfide (H ₂ S)	Carbon monoxide (CO)		Hydrogen sulfide (H ₂ S)		Carbon monoxide (CO)	
Sensor mod	del		ESR-A	A1DP		ESR-A13i		ESR-A1CP/ESR-A13P	
Explosion-pro	oof specifications	IECEx/ATEX	Japan Ex	IECEx/ATEX Japan Ex		IECEx/ATEX	Japan Ex	IECEx/ATEX	Japan Ex
Display ran	ge	0 - 200).0 ppm	0 – 2000 ppm		0 – 200.0 ppm		0 – 2,000 ppm	
Detection ra	ange	0 - 100.0 ppm	0 – 30.0 ppm	0 – 500 ppm		0 – 100.0 ppm	0 – 30.0 ppm	0 - 50	0 ppm
Resolution		0.1	ppm	1 ppm		0.1 ppm		1 ppm	
	First alarm	5.0 ppm	1.0 ppm	25 ppm		5.0 ppm	1.0 ppm	25 μ	opm
	Second alarm	30.0 ppm	10.0 ppm	50 ppm		30.0 ppm	10.0 ppm	50 p	opm
Alarm setpoints*1	Third alarm	100.0 ppm	10.0 ppm	1,200 ppm	50 ppm	100.0 ppm	10.0 ppm	1,200 ppm	50 ppm
octpointo.	TWA	1.0	ppm	25	ppm	1.0	ppm	25 μ	ppm
	STEL	5.0	ppm	200 ppm		5.0 ppm		200 ppm	
Operating to range*2	emperature	-20 to	+50 °C	-20 to	+50 °C	-20 to	+50 °C	-20 to -	+50 °C
Operating h	umidity range"3	10 to 9	0 %RH	10 to 9	90 %RH	10 to 90 %RH		10 to 90 %RH	

● VOC sensor **45/67** (P1 to P3)

Smart sensor (Photoionization detection type (PID))

	1001 (1 1101010	onization actedion type (i ib))					
Detection t	arget gas	Volatile organic compounds (VOCs)					
Sensor model		PIS-001A	PIS-002A	PIS-003			
Photoioniza	ation energy	10.6 eV	10.6 eV	10.0 eV			
Explosion-pr	oof specifications		IECEx/ATEX and Japan Ex				
			VOC: 0 — 100.0 ppm Benzene: 0 — 50.0 ppm ⁻⁴				
Resolution		1 ppb (0 – 4,000 ppb) 10 ppb (4,000 – 40,000 ppb)	0.1 ppm (0 – 400.0 ppm) 1 ppm (400 – 4,000 ppm)	0.01 ppm (0 – 10.00 ppm) 0.1 ppm (10.0 – 100.0 ppm)			
	First alarm	5,000 ppb	400.0 ppm	5.00 ppm			
	Second alarm	10,000 ppb	1,000 ppm	10.0 ppm			
Alarm setpoints*1	Third alarm	10,000 ppb	1,000 ppm	10.0 ppm			
octpoints.	TWA	0FF	0FF	OFF			
	STEL	0FF	0FF	0FF			
Operating t range*2	emperature	-20 to +50 °C	-20 to +50 °C	-20 to +50 °C			
Operating h	numidity range*3	0 to 95 %RH	0 to 95 %RH	0 to 95 %RH			

■ Toxic gas sensor 45/67 (E1 to E6)

Smart sensor (electrochemical type)

Official Cool	1001 (01001100	chemical type)					
Detection to	arget gas	Sulfur dioxide (SO ₂)	Nitrogen dioxide (NO ₂)	Hydrogen cyanide (HCN)*5	Phosphine (PH ₃)	Ammonia (NH ₃)	Chlorine (Cl ₂)
Sensor mod	del	ESS-03DH	ESS-03DH	ESS-03DH	ESS-03DH	ESS-B332	ESS-B335
Explosion-pro	of specifications			IECEx/ATEX a	and Japan Ex		
Display range		0 – 99.90 ppm	0 – 20.00 ppm	0 – 15.0 ppm	0 – 20.00 ppm	0 – 400.0 ppm	0 – 10.00 ppm
Detection ra	ange	0 – 99.90 ppm	0 – 20.00 ppm	0 – 15.0 ppm	0 – 1.00 ppm	0 – 400.0 ppm	0 – 10.00 ppm
Resolution		0.05 ppm	0.05 ppm	0.1 ppm	0.01 ppm	0.5 ppm	0.05 ppm
	First alarm	2.00 ppm	3.00 ppm	5.0 ppm	0.30 ppm	25.0 ppm	0.50 ppm
	Second alarm	5.00 ppm	6.00 ppm	10.0 ppm	1.00 ppm	50.0 ppm	1.00 ppm
Alarm setpoints*1	Third alarm	5.00 ppm	6.00 ppm	10.0 ppm	1.00 ppm	50.0 ppm	1.00 ppm
octpointo.	TWA	2.00 ppm	3.00 ppm	OFF	0.30 ppm	25.0 ppm	0.50 ppm
	STEL	5.00 ppm	OFF	4.7 ppm	1.00 ppm	35.0 ppm	1.00 ppm
Operating to range*2	emperature	-20 to +50 °C	-20 to +50 °C	-20 to +50 °C	-20 to +50 °C	-20 to +50 °C	-20 to +50 °C
Operating h	umidity range ^{*3}	10 to 90 %RH	10 to 90 %RH	10 to 90 %RH	10 to 90 %RH	20 - 90 %RH	20 - 90 %RH

Carbon dioxide sensor 45/67 (D1, D4)

Smart sensor (non-dispersive infrared type (NDIR))

mart sonsor (non dispersive initiated type (NDIII))					
Detection to	arget gas	Carbon dioxide (CO ₂)	Carbon dioxide (CO ₂)		
Sensor mod	del	DES-3311-4	DES-3311-1		
Explosion-pro	of specifications	IECEx/ATEX and Japan Ex			
Display ran	ge	0 – 10,000 ppm	0 - 10.00 vol%		
Detection ra	ange	0 – 10,000 ppm	0 - 5.00 vol%		
Resolution		20 ppm	0.02 vol%		
	First alarm	5,000 ppm	0.50 vol%		
A1	Second alarm	OFF	3.00 vol%		
Alarm setpoints*1	Third alarm	OFF	3.00 vol%		
оофонно	TWA	5,000 ppm	0.50 vol%		
	STEL	OFF	3.00 vol%		
Operating temperature range*2		-20 to +50 °C			
Operating h	umidity range ¹³	0 to 95 %RH			

Combustible gas sensor 45/67 (D2, D3)

Smart sensor (non-dispersive infrared type (NDIR))

Detection target gas		Methane (CH ₄)	Isobutane (i-C ₄ H ₁₀)		
Sensor mod	del	DES-3311-3	DES-3311-2		
Explosion-pro	oof specifications	IECEx/ATEX a	and Japan Ex		
Display range		0 – 100 %LEL/ 100 %LEL – 100.5 vol%	0 – 100 %LEL/ 100 %LEL – 30.0 vol%		
Detection range		0 – 100 %LEL/ 100 %LEL – 100.0 vol%	0 - 100 %LEL		
Resolution		1 %LEL/0.5 vol%			
	First alarm	10 %LEL			
	Second alarm	50 %LEL			
Alarm setpoints*1	Third alarm	50 %LEL			
octpointo	TWA	_			
	STEL	_			
Operating temperature range*2		-20 to +50 °C			
Operating h	umidity range ^{*3}	0 to 95 %RH			

● Combustible gas sensor **45**/**67** (S1, S2) Smart sensor (hot-wire semiconductor type)

oman on	omant sensor (not-wire semiconductor type)				
Detection target gas		Methane (CH ₄)	Isobutane (i-C ₄ H ₁₀)		
Sensor mod	lel	SHS-8661			
Explosion-pro	of specifications	IECEx/ATEX a	and Japan Ex		
Display rang	ge	0 – 5,000 ppm	0 – 2,000 ppm		
Detection ra	inge	0 – 2,000 ppm	0 – 500 ppm		
Resolution		10 ppm			
	First alarm	-			
	Second alarm	_			
Alarm setpoints*1	Third alarm	_			
осфонто	TWA	_			
	STEL	_			
Operating tLemperature range ¹²		-20 to +50 °C			
Operating h	umidity range*3	20 to 95 %RH			

^{*1:} The alarm setpoint values above are the default settings. Where the values are shown or are indicated as "OFF", settings can be changed by the user using the setting program.

*2: With no condensation

*4: The display range and detection range in benzene select mode for which benzene can be selectively measured using the prefilter tube (sold separately).

*5: Due to export restrictions, co

ES France - Département Bio-tests & Industries 127 rue de Buzenval BP 26 - 92380 Garches

Product specifications

Model		GX-6100				
Concentration display	LCD digital (full-dot display)					
Detection method		Pump suction type				
Suction flow rate		Minimum 0.45 L/min (with tube not fitted	d)			
Display items		Clock, battery level, operation status				
Display languages		rean, Chinese (simplified), Chinese (traditional), Czech, German, Turkish, French, Portuguese, F				
Buzzer sound pressure	Approx. 95	dB (mean value at 30 cm from source, with pr	rotect cover fitted)			
Gas alarm indication	Lamp flashing, continue	ous modulating buzzer sounding, gas concentra	ation readout blinking, vibration			
Gas alarm pattern		Self-latching, auto-reset (Default setting: Self-la	atching)			
Fault alarm/self-diagnosis	Flow rate abnormality, system ab	normality, sensor abnormality, low battery voltage	ge, adjustment failure, clock abnormality			
Fault alarm indication	La	amp flashing, intermittent buzzer sounding, deta	ail display			
Fault alarm pattern		Self-latching				
Panic/man down alarm indication*1	Prealarm: Lamp flashing, intermittent buzzer sounding (prealarm) Main alarm: Lamp flashing, continuous modulating buzzer sounding					
Panic alarm pattern*1		Self-latching				
Man down alarm pattern*1		Auto reset				
Communication specifications	Bluetooth® (Bluetooth Low Energy)					
Power source	Lithium ion battery unit (BUL-6100) or dry battery unit (BUD-6100) (AA alkaline batteries × 3) ¹²					
Continuous operating time*3		Lithium ion battery unit: Approx. 28 hours Dry battery unit: Approx. 8 hours (at 25 °C, no alarm, no lighting)	S			
Operating temperature range		-20 to +50 °C (no sudden fluctuations)				
Operating humidity range*4		0 to 95 %RH (no condensation)				
Operating pressure range	8	0 to 120 kPa (80 to 110 kPa for explosion-prod	of range)			
Structure	Dustpro	of/waterproof construction equivalent to IP67 (e	excluding pipes)			
Explosion-proof construction	Intrinsi	cally safe explosion-proof construction, flame-p	roof enclosure			
Explosion-proof class	IECEx'5 Ex da ia IIC T4 Ga (with new ceramic type sensor) Ex ia IIC T4 Ga (without new ceramic type sensor)	ATEX ⁵ II 1 G Ex da ia IIC T4 Ga (with new ceramic type sensor) II 1 G Ex ia IIC T4 Ga (without new ceramic type sensor)	Explosion-proof electrical equipment type certified (Japan Ex) Ex da ia IIC T4 Ga (with new ceramic type sensor) Ex ia IIC T4 Ga (without new ceramic type sensor)			
Certifications		CE marking				
External dimensions	Approx.	70 mm (W) \times 201 mm (H) \times 56 mm (D) (exclude	ding projections)			
Weight	Appr	ox. 500 g (with BUL-6100), approx. 450 g (with	BUD-6100)			

^{*1:} The panic alarm and man down alarm are disabled by default. The settings must be enabled in order to use these alarms.

RIKEN KEIKI Co., Ltd.

2-7-6 Azusawa, Itabashi-ku, Tokyo 174-8744, Japan

Phone: +81-3-3966-1113 Telefax: +81-3-3558-9110 E-mail: intdept@rikenkeiki.co.jp

Web site: https://www.rikenkeiki.co.jp/english

*The contents described in this catalog are subject to change without notice according to the performance **★** Distributed by:

Japan Ex models can use three Toshiba LR6T (JE) batteries.
IECEx/ATEX models can use either three Toshiba LR6T (JE) or three Duracell MN1500 batteries.

For six-component models detecting combustible gas (new ceramic type sensor), oxygen, hydrogen sulfide, carbon monoxide, VOC, and carbon dioxide. The continuous operating time varies depending on the sensor

Operating ambient humidity range: May vary depending on the sensors installed. For more information, refer to 'Sensor specifications' on P. 6.

When using the BUL-6100 or BUD-6100 with Toshiba dry cell batteries. The temperature class is T3 when using the BUD-6100 with Duracell (MN1500) batteries.