

Allows up to 3 different toxic gas sensors to be installed in a single unit (3-in-1). Innovative gas detector

- Simultaneous detection of up to 3 different toxic gases: NH3, HF, Cl2, HCl, O3, SiH4, PH3, etc.
- Up to 3-year gas sensor warranty: Features next-generation high-performance gas sensors.
- Outstanding durability: Passes 1.5 m drop testing, equivalent to IP66/68 protection rating
- Bluetooth® equipped! Easy data management via smartphone (optional)
- Inherently safe explosion-proof construction allows use in explosion-proof areas.
- Continuous operating time: Approx. 60 hours (about twice the time of the previous gas detector)



Portable Multi Toxic Gas Detector

Simultaneous Toxie Gas Defection

Features 3 different toxic gas sensors to provide the performance of 3 conventional gas detectors in a single unit. Sensor combinations can be selected from gases including NH₃, HF, Cl₂, HCl, O₃, SiH₄, and PH₃. Dramatically improves work efficiency while reducing purchase and maintenance costs.

* For details of detection target gas combinations, please contact RIKEN KEIKI.



Each toxic gas type required a separate gas detector





Simply install the required gas sensors in 3 gas sensor slots!



: More compact than previous gas detector



Previous gas detector SC-9000 Approx. 154 mm Approx. 132 mm

Next-generation high-performance F sensors installed What are F sensors?

Next-generation high-performance gas sensors that are more compact than previous gas sensors while offering greatly improved performance and durability.

Compared to previous gas sensors, the size (volume) has been reduced to less than

gas



Gas sensor warranty years

Features next-generation high-performance F sensors offering outstanding performance and allowing long-term use with peace of mind.

* Refer to "Gas Sensor Specifications" for details of the specific warranty periods.

Outstanding durability



1.5 m drop testing



Equivalent to IP66/68 protecting rating



-20 °C to +50 °C

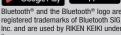
Bluetooth® equipped!* Easy data management via smartphone

Can communicate with smartphones and tablets via Bluetooth®. Easy data management using the dedicated Operating temperature range RK Link app to record and email measurement results.

* Please specify when ordering if you require Bluetooth® functionality



Google Play



Intrinsically safe explosion-proof construction

Meets Japanese and international explosion-proof standards, allowing use even in explosion-proof areas.

Japan Ex, ATEX, IECEx

Continuous operating time: Approx. 60 hours*

used to save time/

date/user/location/

readings.

Twice the time of the previous gas detector to allow use for a week without recharging, even when used 8 hours a day

* For lithium ion battery model. Approx. 30 hours for dry cell battery model

Usable in a wide range of fields

With a broad range of toxic gas sensors, the SC-9000 offers outstanding durability and inherently safe explosion-proof construction. You can select target gases depending on the purpose in various fields such as semiconductor plants, petrochemical plants, shipping, automotive plants, or fumigation.









[Accessories]

Tube/strap

Sampling probe

Approx. 94 cm tube with gas sampling rod (Interior coating: ETFE)
Allows suction even with strongly adsorptive toxic gases.

Part No.: 4733 9406 00



Shoulder strap

Attaches to the main unit for easy carrying over your

Part No.: 4777 4592 10





Appearance with accessories attached

Batteries and power related

AC adapter

Part No.: 2594 1342 30

* Included with rechargeable battery model



Adapter plug (Type C)

Part No.: 2594 1435 00

* Included with ATEX/IECEx rechargeable battery model



AA alkaline batteries ×6

Part No. (single battery): 2753 3007 80

* Included with dry cell battery model



[Optional Accessories]

Batteries

Dry battery unit and AA alkaline batteries

Inserting batteries allows instant use in emergencies.

Dry battery unit

Part No.: (Japan Ex) 4777 9603 60

(ATEX/IECEx) 4777 9605 10

AA alkaline battery
Part No.: 2753 3007 80



Lithium ion battery unit and AC adapter

The battery unit allows repeated use by recharging. The AC adapter features a USB Type-C connector.

Lithium ion battery unit

Part No.: (Japan Ex) 4777 9602 90 (ATEX/IECEx) 4777 9604 30

AC adapter

Part No.: 2594 1342 30



Case/holder

Waist belt and waist belt attachment

Allow the gas detector to be worn close to the body.

* We recommend using in conjunction with the shoulder strap to prevent the gas detector dropping.

Waist belt

Part No.: 4775 5653 40

Waist belt attachment

Part No.: 4775 9853 10

Waist belt attachment



Sampling rod holder

Attaches to the shoulder strap; allows the gas sampling rod tip to be stowed.

Part No.: 4775 5651 00



Aluminum storage case

Houses the gas detector, accessories, and optional accessories.

Dimensions

Approx. 365 mm (W) \times 236 mm (H) \times 226 mm (D)

Part No.: 4777 9579 00 * excluding projections

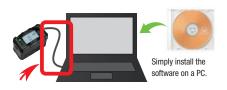


Management software/cable

USB cable (1 m)

Connects the gas detector to a PC. Used when using the software

Part No.: 2440 2728 90



Data logger management program

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

Part No.: (Japan Ex) 9811 0980 90 (ATEX/IECEx) 9811 0990 80



Example: Measurement results (table) Example: Measurement results (graph)

Configuration Program

A configuration program to edit SC-9000 settings can be downloaded free of charge from the RIKEN KEIKI website.

Miscellaneous

Adapter plugs

The Type A AC adapter can be converted to Type C, O, or BF.

Part No.: (EU/Type C) 2594 1435 00

(AU/Type 0) 2594 1434 20 (UK/Type BF) 2594 1436 70







Protective film

To protect the LCD (set of 5)

Part No.: 4777 9025 70



[Product Specifications]

Item	Specifications		
Concentration display	LCD digital (full dot)		
Detection target gases*1	Up to 3 different gas sensors can be installed. (NH ₃ , HF, Cl ₂ , HCl, O ₃ , SiH ₄ , PH ₃ , NO, NO ₂)		
Detection method	Pump suction type		
Suction flow rate	Minimum 0.75 L/min (open flow rate)		
Display items	Clock, battery level, operation status		
Display languages	English, Cantonese (Traditional Chinese), Czech, French, German, Italian, Japanese, Korean, Mandarin (Simplified Chinese), Polish, Portuguese, Russian, Slovak, Spanish, Turkish, Vietnamese		
Buzzer volume	Approx. 95 dB (mean value at 30 cm from source)		
Gas alarm indication	Lamp flashing, continuous modulating buzzer sounding, gas concentration reading blinking		
Gas alarm pattern	Self-latching, auto-reset		
Fault alarm/self-diagnosis	Flow rate abnormality, system abnormality, sensor abnormality, low battery voltage, calibration failure, clock abnormality		
Fault alarm indication	Lamp flashing, intermittent buzzer sounding, detail display		
Fault alarm pattern	Self-latching		
Communication specifications	USB 2.0 Type-C (for data logger/setting), Bluetooth 4.2 (Bluetooth Low Energy)		
Power source*2	Dedicated lithium ion battery unit (BUL-9000) or dedicated dry battery unit (AA alkaline batteries ×6) (BUD-9000)		
Continuous operating time	Lithium ion battery unit: Approx. 60 hours (at 25 °C, no alarm, no lighting) Dry battery unit: Approx. 30 hours (at 25 °C, no alarm, no lighting)		
Operating temperature range*3	-20 °C to +50 °C (no sudden fluctuations)		
Operating humidity range*3	20 to 90 %RH (no condensation)		
Operating pressure range	80 kPa to 120 kPa (80 kPa to 110 kPa for explosion-proof range)		
Construction*4	Dustproof and waterproof construction equivalent to IP66/68, drop resistant to 1.5 m		
Explosion-proof construction	Intrinsically safe explosion-proof construction		
Explosion-proof class*5	Japan Ex: Ex ia IIC T4 Ga ATEX: II 1 G Ex ia IIC T4 Ga IECEx: Ex ia IIC T4 Ga		
Certification	CE marking		
External dimensions	Approx. 158 mm (W) \times 85 mm (H) \times 132 mm (D) (excluding projections)		
Weight*6	Approx. 1.1 kg		

[Gas Sensor Specifications]

Detection target gas	Detection range	Resolution	Alarm setpoints (1st/2nd)	Warranty period
NH₃	0 – 75.0 ppm	0.5 ppm	25.0/50.0 ppm	2 years
F ₂	0 – 3.00 ppm	0.02 ppm	1.00/2.00 ppm	1 year
HF	0 – 1.50 ppm	0.01 ppm	0.50/1.00 ppm	1 year
Cl ₂	0 – 1.50 ppm	0.01 ppm	0.50/1.00 ppm	3 years
HCI	0 – 6.00 ppm	0.05 ppm	2.00/4.00 ppm	3 years
HBr	0 – 6.00 ppm	0.05 ppm	2.00/4.00 ppm	3 years
CIF₃	0 – 0.300 ppm	0.002 ppm	0.100/0.200 ppm	3 years
Оз	0 – 0.600 ppm	0.005 ppm	0.100/0.200 ppm	1 year

	Detection target gas	Detection range	Resolution	Alarm setpoints (1st/2nd)	Warranty period
	SiH₄	0 – 15.0 ppm	0.1 ppm	5.0/10.0 ppm	3 years
	Si ₂ H ₄	0 – 15.0 ppm	0.1 ppm	5.0/10.0 ppm	3 years
	PH₃	0 – 1.00 ppm	0.01 ppm	0.30/0.60 ppm	3 years
	HCN*	0 – 15.0 ppm	0.1 ppm	5.0/10.0 ppm	3 years
	NO	0 – 100 ppm	1 ppm	25/50 ppm	3 years
	NO ₂	0 – 15.0 ppm	0.1 ppm	5.0/10.0 ppm	3 years
	SO ₂	0 – 6 ppm	0.05 ppm	2.00/4.00 ppm	3 years

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^{*1:} For details of detection target gas combinations, please contact RIKEN KEIKI.

*2: To ensure explosion-proof performance, use only the batteries indicated on the explosion-proof certificate.

*3: May vary depending on the gas sensors installed.

*4: IPx8: No water penetration when submerged at depth of 2 m for 1 hour.

*5: For dry cell battery model, the explosion-proof class may differ in some cases when using battery power.

*6: Including batteries and battery unit.