Detect dangerous gas leaks quickly and reliably

Portable Gas Leak Detector

Model SP-230 TYPE SC

CE Marking-compliant/ UKCA Marking-compliant product

● **Easy to recognize by LED**

Newly equipped with LED, it informs the user of alarm points, gas concentration, and operating status by color and scale.

● **Enhanced functions allow for work in dark places**

LED light illuminating the front.
The backlit buttons for easy operation.

● **One-push access to multiple functions**

Frequently used operations such as LED light ON/OFF, alarm/operation sound ON/OFF, and alarm point switching can be operated with single push.

● **Reliable assign for use even in harsh environments**

○Pass 2m drop testing

○Protection rating equivalent to IP67

○Usable across a wide range of temperature (−20℃ to +55℃)

● **Allows direct readout of 50 type of different gases**

RIKEN KEIKI Co.,Ltd.

Model	SP-230
Type	TYPE FUM
Detection principle	Hot-wire semiconductor type
Detection target gas	Semiconductor material Gas（Refer to Detection target gas list）
Calibration gas	PH₃
Concentration display	LCD bar meter + scale + LED
Detection range	Depends on target gas（Refer to Detection target gas list） （PH₃:0.1〜2.0ppm）
Detection method	Pump suction type
Alarm setpoints	Default setting：0.1ppm(PH₃:0.1, 2.0 ppm)
Display items	Operating status icon, flow confirmation icon, operation tone icon, alarm sound icons, alarm setpoint display, battery level icon, bar meter display, mode display, gas name/message display
Response time (for identical conditions)	Within 10 seconds
Gas alarm type	One-step alarm
Gas alarm indication	Lamp flashing, buzzer sounding
Gas alarm pattern	Auto reset
Fault alarm	Sensor abnormality/Low flow rate/Low battery voltage/System abnormality/Adjustment abnormality/Clock abnormality/Pump abnormality
Fault alarm icon	Lamp flashing/buzzer sounding/fault information display
Fault alarm pattern	Self-latching
Power source	AA alkaline batteries × 2
Continuous operating time	Approx. 13 hours (with alkaline dry batteries, at 25℃, no alarm, no lighting)
Operating temperature/humidity range	-20 ℃ to +55 ℃ (no sudden fluctuations)/Up to 95 %RH (no condensation)
Protection level	IP67 equivalent
Certifications	CE marking, UKCA marking
External dimensions/weight	Approx. 41 mm (W) × 186 mm (H) × 38 mm (D) (excluding projections)/ Approx. 220 g (excluding dry batteries)

※This product is used for detecting ultra-low gas leaks, so the gas concentration values are approximations.

●Detection target gas list

Gas name (standard name)	Display	Scale 1	Scale 2	Gas name (standard name)	Display	Scale 1	Scale 2
Phosphine	PH3	0.1	2.0	Methyl alcohol	CH3OH	1	10
Acetone	C3H6O	1	10	Methyl ethyl ketone	MEK	1	10
Arsine	ASH3	0.2	—	Hydrogen sulfide	H2S	0.1	—
Ammonia	NH3	10	—	Diborane	B2H6	0.1	—
Isobutane	I-C4H10	1	10	Germane	GEH4	0.2	—
Isopropyl alcohol	IPA	1	10	Hydrogen bromide	HBR	10	—
Carbon monoxide	CO	10	30	Hydrogen chloride	HCL	10	—
Ethyl alcohol	C2H5OH	1	10	Freon 407C	R407C	10	50
Ethylene	C2H4	1	10	Hydrogen selenide	H2SE	0.5	—
Vinyl chloride	VCM	1	—	Freon 410A	R410A	10	50
Methyl chloride	CH3CL	1	10	Freon 404A	R404A	10	50
Xylene	C8H10	1	10	HFO-1234yf	R1234YF	10	30
Ethylene oxide	EO	1	10	Acetylene	C2H2	1	10
Silane	SIH4	0.5	—	Dichloromethane	CH2CL2	5	—
Methyl bromide	CH3BR	1	20	Propylene oxide	PO	1	10
Hydrogen	H2	1	10	trans-1,2-dichloroethene	C2H2CL2	1	—
Trichloroethylene	C2HCL3	10	—	Freon 41	R41	1	10
Toluene	C7H8	1	10	Perfluoro Butadiene	C4F6	5	30
1,2-dichloroethane	EDC	1	10	Carbonyl sulfide	COS	0.5	—
Sulfur dioxide	SO2	1	—	Deuterium	D2	1	10
Propane	C3H8	5	20	Freon 245fa	R245FA	10	50
Freon 134a	R134A	50	250	Trans-1,3,3,3-tetrafluoropropene (R-1234ze(E))	R1234ZEE	10	50
Freon 22	R22	10	50				
Freon 32	R32	10	50				
N-hexane	N-C6H14	10	50				
Benzene	C6H6	0.5	10				
Form aldehyde	HCHO	10	50				
Methane	CH4	1	20				

"—"(bar display) indicate no scale

Even easier to see!

In addition to the conventional LCD display screen, an LED display is mounted.
The current gas alarm point, gas concentration, and operating status are notified in color and on a scale.
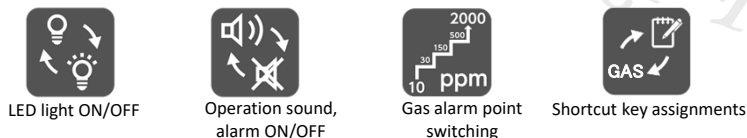
Normal   Gas alarm

Work in dark places is also safe!

Enhanced functions ensures safety even when working in dark places, LED light illuminating the front, the backlit buttons for easy operation.

LED light   Button backlit

One-push access to multiple functions

LED light ON/OFF

Operation sound, alarm ON/OFF

Gas alarm point switching

Shortcut key assignments

Standard accessories

Numbers in parentheses are part NO.

Protective cover (4126 9248 30)	Tapered nozzle (4126 9249 10)	Hand strap (0888 0605 90)
AA Alkaline batteries (2753 3007 80) ※One battery	Replacement waterproof filters 5 pcs (4126 9189 30)	

Optional accessories

Numbers in parentheses are part NO.

Tertiary filters 5 pcs (4126 9199 20)	Inspection gas (0800 0904 10)	Humidifier tube (4126 9227 80)

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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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