

Easy operation/Small size/Super sensitivity



Super sensitive measurement of quite small amounts of gas

Since extremely high sensitive semiconductor gas sensor is used as a detector, ppb (parts per billion) level measurement can be realized.

Easy operation/short time measurement

Simply injecting sample gas starts measurement automatically.
The measurement is completed in 4 or 8 minutes.

No carrier gas cylinder required

SGC uses ambient air as carrier gas so that high pressure gas cylinder is not necessary.
Note: Some models need the cylinder.

Small size/light weight/Portable

Our original technology including a short length column has realized a small size (B4 size) and light weight (5.5kg) unit with excellent portability that does not require a limited installation site.

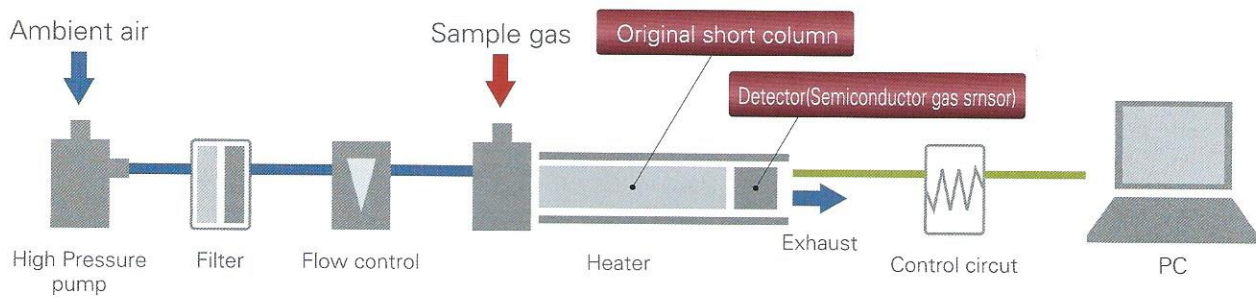
Continuous measurement (automatic gas injector)

* Optional feature

Automatic continuous measurement is possible by setting total measurement duration time or total measurement times.

Basic configuration

Simple configuration using ambient air as carrier gas and highly sensitive semiconductor gas sensor as a detector realizes super sensitive measurement.



Application fields

SGC can be used to detect very small gas in various fields.



Factory environment measurement

Environmental measurement inside and outside a factory, malodor processing ability check, etc.



Food freshness check/food production quality control

Quality control and freshness check in food processing process, etc.



Garbage odor control

Garbage released odor control, odor prevention in the neighborhood, etc.



Very small amount gas analysis in R&D

Very small amount gas analysis in R&D of environmental, medical, and micro-organism fields

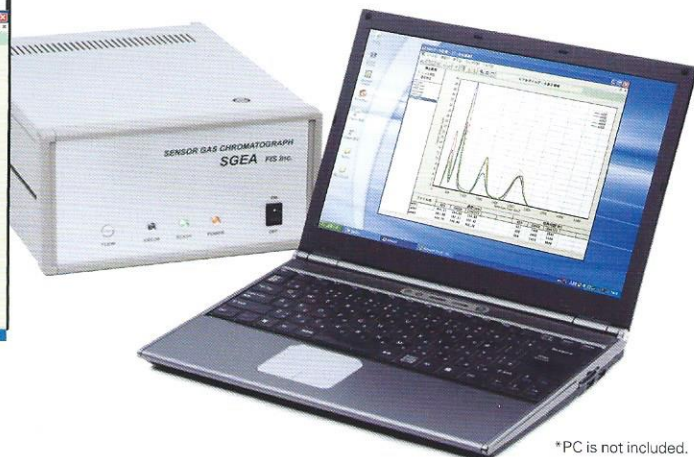
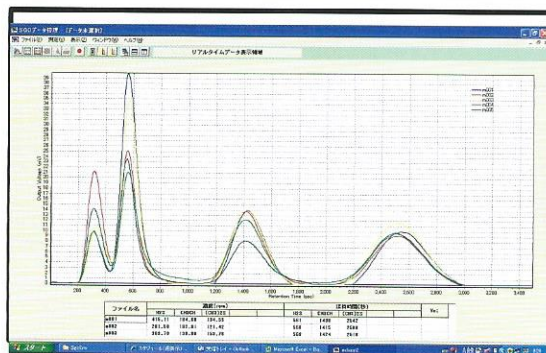


Deodorizer performance evaluation

Performance and deterioration evaluation for deodorizers, etc.

Real time data viewing with attached software

SGC is supplied with a standard software displaying the real-time measurement results on PC. This software has various features such as chromatography chart, gas concentration display, and continuous measurement (optional) display.



Customizable

SGC can be customized to meet your demand.

Examples:

- For use with high purity air cylinder as carrier gas, if the ambient air around SGC is polluted, etc.
- Automatic gas injection and continuous measurement

Specifications

Product name	Sensor Gas Chromatograph				
Model	ODSA-P2	ODNA-P2	SGHA-P2	SGEA-P2	SGVA-P2
Measurement principle	Gas chromatography using semiconductor gas sensor				
Target gases (*1)	Hydrogen sulfide Methyl mercaptan Dimethyl sulfide	Ammonia Trimethylamine	Hydrogen Carbon monoxide Methane	Acetone Ethanol Acetaldehyde Isoprene	Toluene Ethylbenzene Xylene Styrene
Measurement concentration	Hydrogen sulfide: 5ppb to 1ppm Methyl mercaptan: 5ppb to 1ppm Dimethyl sulfide: 5ppb to 1ppm	Ammonia: 50ppb to 100ppm Trimethylamine: 50ppb to 10ppm	Hydrogen: 1 to 150ppm (*2) Carbon monoxide: 1 to 150ppm Methane: 1 to 150ppm	Acetone: 100ppb to 20ppm Ethanol: 100ppb to 100ppm Acetaldehyde: 100ppb to 100ppm Isoprene: 100ppb to 20ppm	Toluene: 5ppb to 1ppm Ethylbenzene: 5ppb to 1ppm Xylene: 5ppb to 1ppm Styrene: 5ppb to 1ppm
Minimum display resolution	0.1ppb or 0.1ppm				
Warm-up time	5 to 60 min (*3)				
Measuring time	4min	4min (*4)	4min	8min	8min
Sampling gas amount (*5)	2 cc	2cc	2cc	5cc	5cc
Measurement results	On PC display (*6)				
Sample injection	Manual injection with a syringe. Auto-start of the measurement (*7)				
Carrier gas	Pumped and filtered clean ambient air (*8)				Cylinder air
Signal output via	RS232C (*9)				
Power supply	100 to 240V AC				
Power consumption	Approx. 40VA				
Measurement	260 (W) X 135 (H) X 340 (D) mm			260 (W) X 135 (H) X 435 (D) mm	
Weight	5.5kg			6.5kg	
Operating temp/humid	Temperature: 10 to 30°C Humidity: 20 to 80%RH (No dew condensation)				
Storage temp/humid	Temperature: -20 to 60°C Humidity: 20 to 80%RH (No dew condensation)				

(*1) Only one gas can be selected. Additional charge for other gas(es).

(*2) When Hydrogen-free cylinder air is used, this range will be 50ppb to 150ppm (Option)

(*3) Time is automatically adjusted depending on the unit stability.

(*4) When Trimethylamine is selected, the time will be 8 min.

(*5) This amount can be changed within the range of 0.2 to 5cc. This may not be realized due to accuracy requirement.

(*6) Exclusive measurement analysis software is attached.

(*7) Automatic and continuous sampling is available (option).

(*8) Cylinder air is available as carrier gas (option)

(*9) USB port on PC can be used with an attached USB-RS232C conversion cable.



Safety precautions

- Please read the Instruction Manual very carefully before operation.
- Measuring other gases than specified in the catalogue may cause malfunction of SGC.

• In the interest of continued product improvement, design and specifications may be changed without prior notice.