

Super sensitivity / Easy operation / Small size

# SGC



\*PC is not included.

### Super sensitive measurement of quite small amounts of gas

As an extremely high sensitive semiconductor gas sensor is used, ppb (parts per billion) level measurement can be realized.

### Easy operation / short time measurement

Injecting sample gas starts measurement automatically.

### Carrier gas cylinder not required

SGC uses ambient air as carrier gas so that high pressure gas cylinder is not necessary.

Note: The model "SGVA-P3" needs the cylinder.

### Small size / light weight / Portable

The short length column has created a portable, small (34×26×13.5cm) and light weight (5.5kg) unit.

### Continuous measurement (automatic gas injector)

Automatic and continuous sampling is available (option).

## Specifications

Product name	SGC				
Model	ODSA-P3-A	ODNA-P3-A/B	SGHA-P3-A/B	SGVA-P3-A	SGEA-P3-A
Measurement method	Pressurized gas is not required. Only inject sample gas to start measurement automatically.				
Detector	Semiconductor gas sensor				
Target gases(*1)	Hydrogen sulfide Methanethiol Dimethyl sulfide	Ammonia Trimethylamine	Hydrogen Carbon monoxide	Toluene Ethylbenzene Xylene Styrene	Acetaldehyde Acetone Ethanol Isoprene
Measurement unit	ppb				
Measurement concentration	Hydrogen sulfide: 2 to 1000ppb (1ppm) Methanethiol: 5 to 1000ppb (1ppm) Dimethyl sulfide: 5 to 1000ppb (1ppm)	(ODNA-P3-A) Ammonia: 30 to 10000ppb (10ppm) (ODNA-P3-B) Ammonia: 100 to 10000ppb (10ppm) Trimethylamine: 10 to 10000ppb (10ppm)	(SGHA-P3-A) Hydrogen: 10 to 10000ppb (10ppm) Carbon monoxide: 50 to 10000ppb (10ppm) (SGHA-P3-B) Hydrogen: 1000 to 100000ppb (100ppm) Carbon monoxide: 1000 to 100000ppb (100ppm)	Toluene: 5 to 1000ppb (1ppm) Ethylbenzene: 5 to 1000ppb (1ppm) Xylene: 5 to 1000ppb (1ppm) Styrene: 5 to 1000ppb (1ppm)	Acetaldehyde: 5 to 10000ppb (10ppm) Acetone: 20 to 50000ppb (50ppm) Ethanol: 200 to 100000ppb (100ppm) Isoprene: 10 to 10000ppb (10ppm)
Carrier gas	Filtered clean ambient air		Cylinder air	Filtered clean ambient air	
Sampling injection	Manual injection with a syringe. (*2)				
Measuring time	4min	4min/8min (*3)	2min/4min (*4)	8min	
Sampling gas amount (*5)	2cc		1cc	5cc	
Display resolution	0.1ppb				
Warm-up time	5 to 60min (*6)				
Measurement results	On PC display (*7)				
Signal output via	USB2.0				
Power supply	100 or 240V AC, 50/60Hz			100V AC, 50/60Hz	
Power consumption	Approx. 100VA				
Measurement	340(D) × 260(W) × 135(H)mm			435(D) × 260(W) × 135(H)mm	
Weight	5.5kg		6.0kg	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) Listed gases are standard. Contact us for other gas measurement.

(\*2) Automatic and continuous sampling is available (option).

(\*3) 4min is for Ammonia. Both take 8min.

(\*4) 2min is for SGHA-P3-A. 4min is for SGHA-P3-B.

(\*5) Sampling gas amount can be changed within the range of 0.2 to 5cc.

(\*6) Warm-up time is automatically adjusted depending on the unit stability.

(\*7) Exclusive measurement analysis software is attached.



### 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.

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