

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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