

Super sensitivity / Easy operation / Small size Sensor Gas Chromatograph



Metal
Automobile

Environment
Malodor

Medical
Bio

Material
Food

*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 | Sensor Gas Chromatograph | | | | |
|----------------------------|---|---|--|--|--|
| 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 | |
| Minimum 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 to 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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