

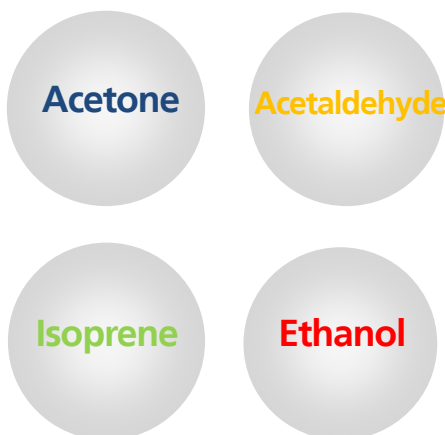
Sensor Gas Chromatograph

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Breath Analyzer

SGEA-P2

Sensor Gas Chromatograph (SGC) uses a highly sensitive semiconductor gas sensor as a gas detector. The original built-in column is small, enabling the sample gases to be very sensitive and quick separation.

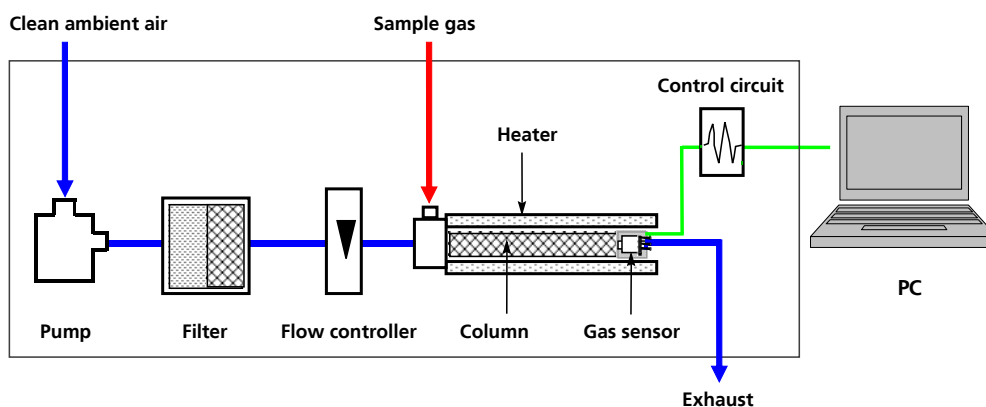


PC is not included.

Features

- Highly sensitive to major exhaled gases (ppb order)
- Easy operation, just push the switch to start the measurement
- Short time measurement (8 min)
- Attached software displaying output signal and gas concentration
- No complicated maintenance and calibration are required
- Small size: 260(W) x 135(H) x 435(D) mm
- Can be customized upon request

Block diagram



Specifications

Item	Contents
Model	SGEA-P2
Measurement principle	Gas chromatography using semiconductor gas sensor
Target gases ^(*1)	Acetone, Ethanol, Acetaldehyde, Isoprene
Measurement concentration	Acetone: 100ppb to 20ppm Ethanol: 100ppb to 10ppm Acetaldehyde: 100ppb to 10ppm Isoprene: 100ppb to 20ppm
Minimum display resolution	0.1ppb
Warm-up time	5 to 60 min ^(*2)
Measuring time	8 min
Sampling gas amount ^(*3)	5cc
Measurement display	On PC display ^(*4)
Sample injection	Manual injection with a syringe. Auto-start of the measurement ^(*5)
Carrier gas	Pumped and filtered clean ambient air ^(*6)
Output	RS232C ^(*7)
Power supply	100 to 240V AC
Power consumption	Approx. 40VA
Measurement	260(W)×135(H)×435(D) mm
Weight	6.5 kg
Operating Temperature/Humidity	Temperature: 10 to 30°C Relative humidity: lower than 80% (No dew condensation)
Storage Temperature/Humidity	Temperature: -20 to 60°C Relative humidity: 20 to 80% (No dew condensation)

Notes:

- (*1) Only one gas can be selected. Additional charge for other gas(es).
- (*2) Time is automatically adjusted depending on the unit stability.
- (*3) This amount can be changed within the range of 0.2 to 5cc. This may not be realized due to accuracy requirement.
- (*4) Exclusive measurement analysis software is attached.
- (*5) Automatic and continuous sampling is available (option).
- (*6) Cylinder air is available as carrier gas (option)
- (*7) USB port on PC can be used with an attached USB-RS232C conversion cable.



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