

Continuous Siloxane Measurement at High Sensitivity



Fully automated sampling and measurement for reliable results

No measurement bias due to human errors

No need of utility gases, low cost of ownership

Analyzer runs without any auxiliary gases. Robustness and long-term stability due to HORIBA inhouse core technology.

Stable continuous measurement with high sensitivity

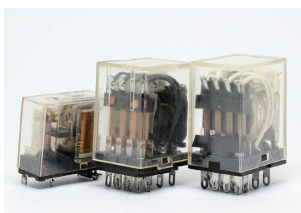
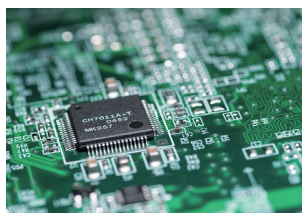
Real-time Total Siloxane measurement with measurement range 0-50 ppm

Capable of measuring CH₄ and CO₂, together with Siloxane

Simultaneous measurement of up to 3 components (CH₄: 0-100 vol%, CO₂: 0-50 vol%)

Application Reference

Measurement of siloxane concentration in siloxane durability tests and simulation tests on contact failure of contact parts, such as relays and motors, due to siloxane adhesion.

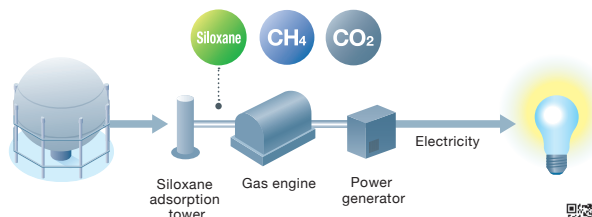


For more information ▶



Impurity monitoring and fuel quality control in biogas power generation facilities

Continuous monitoring of siloxane for prevention of gas engine damage due to siloxane adhesion to the inside of the gas engine. Methane (CH₄) and carbon dioxide (CO₂) measurement is also available for fuel quality control before provision to the gas engine or gas turbine.

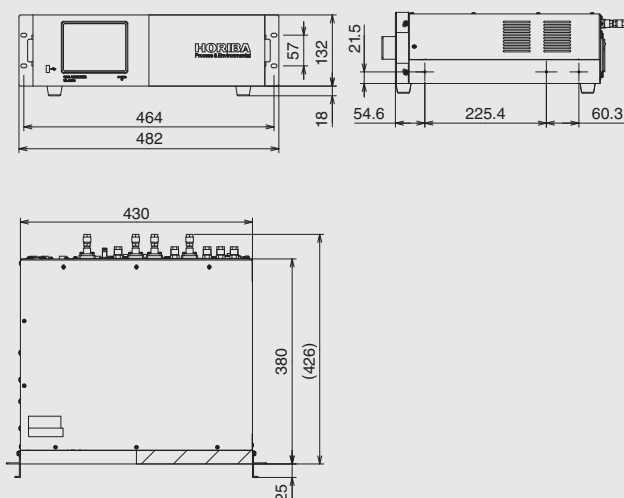


For more information ▶



External dimensions

(Unit : mm)



Specifications

Components	Siloxane	CO ₂	CH ₄
Measurement principle	NDIR : Non-Dispersive Infrared		
Measurement range	0-50 ppm (single range)	0-50 vol%(single range)	0-100 vol%(single range)
Limit of detection	0.1 ppm	—	—
Repeatability	±1% full scale		
Linearity	±2% full scale		
Zero drift	±2% full scale per day		
Span drift	±2% full scale per day		
Sample gas flow rate	Approx. 0.5 L/min		
Gas connections	Inlet and outlet - 6 mm / 4 mm PTFE		
Gas tubing	PTFE		
Display	5.7-inch touch screen		
Output	DC 4-20 mA (non-insulated) / DC 0-1 V(non-insulated)		
Installation environment	Ambient temperature: 0°C to 40°C, Relative humidity: 90% or less		
Power supply	100-240 V AC (±10%, maximum voltage 250 V AC), 50 Hz/60 Hz		
Power consumption	100 to 350 VA		
Dimensions	430(W) X 380(D) X 132(H) mm		
Case	19-inch panel mount		
Weight	Approx. 7-18 kg		
Sample gas conditions	Temperature : Ambient temperature, Dust: None, Moisture : Less than 5°C saturation Pressure : 490 Pa or less, Other: No corrosive gases *For the measurement of siloxane in biogas Gas composition: CO ₂ 10 to 50 vol%/CH ₄ base (However, CO ₂ concentration fluctuation range should be within 20%) *Please consult HORIBA in case of not meeting the above conditions.		

*Please consult HORIBA about the type of siloxane to be measured.

Preprocessing Cooler Unit for Siloxane Analyzer

PS-300S

When sample gas to be measured contains more than 5°C saturation moisture, please use Cooler Unit for dehumidifying and preparation of sample gas to be introduced to Siloxane analyzer.



Specifications

Model	PS-300S
Materials in contact with sample gas	Ti, SUS, PVC, PTFE, FKM, PVDF, PP, Glass
Sample gas flow rate	Max. 0.5 L/min
Sample gas discharge	Max. 0.5 L/min
Dehumidifying capacity	5°C saturated
Installation environment	Ambient temperature: 0°C to 40°C, Ambient humidity: 85% or less
Power supply	100 V AC, 50 Hz/60 Hz *Please consult HORIBA if other power supply is required.
Dimensions	260 (W) × 375 (D) × 235 (H) mm (except for protrusion)
Mass	Approx. 12 kg
Sample gas condition	Temperature : Ambient temperature, Dust: None, Moisture : Ambient temperature below saturation (no condensation) Pressure : Atmospheric pressure ±5 kPa



The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System ISO9001, Environmental Management System ISO14001, and Occupational Health and Safety Management System ISO45001. We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies.



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HORIBA

HORIBA, Ltd.
Group Head Office
 2 Miyanohigashi-cho, Kisshoin, Minami-ku, Kyoto, 601-8510, Japan
 Phone: 81 (75) 313-8121 Fax: 81 (75) 321-5725
<https://www.horiba.com>



Worldwide locations of HORIBA

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