

## SILICA ANALYZER SLIA-5000

### Newly improved silica analyzer

#### Quick and automatic measurement for boiler water, and trace amount of silica present in pure water.

Management of silica ( $\text{SiO}_2$ ) is paramount in preventing the formation of scales. This is because scales present in turbines will reduce the efficiency of power generation, especially for thermal power plants and nuclear power plants. By combining HORIBA's many years of track records and technological know-how, the silica analyzer has been reborn with conventional stability, reliability and maintainability.

#### Key features

##### ▶ $\pm 2\%$ F.S. repeatability with measurement time of 5 minutes

Capable of obtaining high-speed, and highly repeatable measurement results.

##### ▶ Wide measurement range

Measurement is possible from high sensitivity range of 0 to  $10\mu\text{g/L}$  (ppb) to high concentration range of 0 to  $5.0\text{mg/L}$  (ppm).

##### ▶ Self-diagnosis function

Self-diagnosis of operation abnormalities such as water sample or reagent supply error, calibration error, light source error, and in-cell temperature error.

##### ▶ Automatic calibration function

Zero calibration is performed automatically for each measurement. Span calibration can also be preset to perform at specific timings.

##### ▶ Automatic switching of measuring cycle

Switching of measuring cycle automatically saves energy and reagents because measuring cycle is automatically shortened when the sample concentration exceeds the set concentration level, and automatically lengthened when the sample concentration goes below the set level.

##### ▶ Improved operability

Equipped with color LCD touch panel.

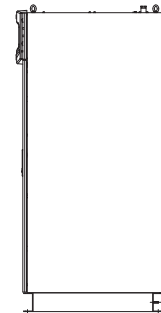
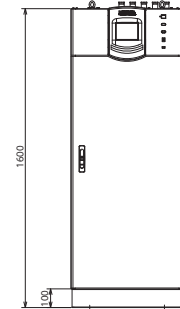
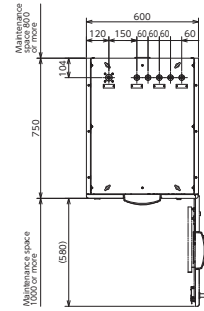


Beyond Water with You

## ■ Specification

General specification	Product name	Silica analyzer
	Model	SLIA-5000
	Dimensions	600 (W) × 750 (D) × 1600 (H) mm
Performance	Mass	Approx. 130 kg
	Power	100 V AC ± 10%, 50/60 Hz Optional: AC 110 V/115 V/120 V/220 V/230 V/240 V ± 10% 50/60 Hz
	Power consumption	500 VA
	Measurement range	0 to 10/0 to 100 µg/L 0 to 50/0 to 500 µg/L 0 to 100/0 to 1000 µg/L 0 to 200/0 to 2000 µg/L 0 to 0.50/0 to 5.00 mg/L (Please specify when ordering)
	Repeatability	±2% of full scale
	Measurement principle	Molybdenum blue
	Measurement point	1 to 4 points (please specify when ordering)
	Measuring time	5 minutes
	Measuring cycle	5 to 999 minutes (selectable at control panel)
	Calibration	Zero calibration: automatic for each measurement Span calibration: with equivalent filter
Installation	Compensation	Zero shift -300.0 to 300.0 µg/L (selectable at control panel)
	Reagents	A: sulfuric acid and ammonium molybdate B: oxalic acid C: L (+)-ascorbic acid
	Reagent exchange cycle	1 week (reagent storage temperature: 30 °C (86 °F) or lower)
	Ambient temperature	0 to 45 °C (32 to 113 °F)
	Ambient humidity	Relative humidity 85% or lower (no condensation)
	Ambient environment	· Indoor installation type · Transient over voltage of main power: Overvoltage category II (EN 61010-1) pollution degree 2 · A flat place with little vibration and shock · Do not include dust, mist, corrosive gas, etc. in the atmosphere. · Atmospheric pressure · Places not exposed to direct sunlight · Ventilated place
	Sample condition	· Temperature: 2 to 40 °C (36 to 104 °F) · Flow rate: 0.5 to 1.0 L/min · Pressure: 0.02 to 0.20 MPa · pH value: 11.0 or lower · Concurrent phosphate ion concentration: 20 mg/L or lower Without phosphate ion in 0 to 10/ 0 to 100 µg/L range (ultra pure water specification)
	Concentration output	Standard: DC 4 to 20 mA or DC 0 to 16 mA (selectable at control panel) Optional: DC 0 to 1 V or DC 1 to 5 V Marked or Hold output (selectable at control panel) Maximum load 500 Ω or lower input / output isolated type Non-isolated between channels
	Contact output	Standard: A contact output (Please specify if B contact is required) Contact capacity AC 250 V 3 A, DC 30 V 3 A Common measurement line: measuring, standby, maintenance, external control status, synchronize signal, equipment error, total alarm, etc. Each measurement line: measurement line, measurement range sample lack, high concentration
	External input / output	Contact input
Display		Color LCD touch panel
Data storage		Measured value: over one year · Alarm history: Up to 500 · Calibration history: Up to 100 · Operation history: Up to 100 * Saveable to external memory such as USB memory

## ■ Dimension Unit (mm)



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 OHSAS18001. We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies.



**Please read the operation manual before using this product to assure safe and proper handling of the product.**

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