

Silica analyzer SLIA-5000

Newly improved version of Silica analyzer

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

Management of silica (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 delivery records and technological know-how, the silica analyzer has been reborn with conventional stability, reliability and maintainability.



Special features

▶ **±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 $\mu\text{g/L}$ to high concentration range of 0 to 5.0 mg/L .

▶ **Self-diagnosis function**

Self-diagnosis of operation abnormalities such as water sample, reagent injection, calibration abnormality, in-cell concentration monitor, and light source abnormality.

▶ **Automatic calibration function**

Zero calibration is performed automatically each time. Span calibration can also be set on specific timings.

▶ **Automatic measurement cycle switching**

When the sample concentration exceeds the set limit, the measurement interval will automatically switch to a secondary measurement interval with a minimum measurement time of 5 minutes.

▶ **Improved operability**

Equipped with color LCD touch panel.

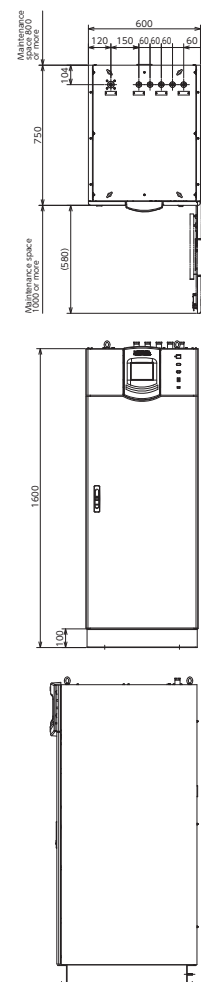


Beyond Water with You

■ Specification

Standard specification	Product name	Silica analyzer
	Model	SLIA-5000
	Dimensions	600 (W) × 750 (D) × 1600 (H) mm
	Mass	Approx. 130 kg
Performance	Power	100V AC ±10%, 50/60 Hz (can be specified.)
	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 (optionally selectable)
	Calibration	Zero calibration: every measurement Span calibration: Equivalent filter
	compensation	Zero point shift -300.0 to 300.0 µg / L
	Reagent	A: sulfuric acid and ammonium molybdate B: oxalic acid C: L (+)-ascorbic acid
	Reagent supply cycle	1 week (reagent storage temperature: 30 °C or less)
	Ambient temperature	0 to 45 °C
Setting condition	Ambient humidity	Relative humidity 85% or less (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
Measurement condition	Sample condition	· Temperature: 2 to 40 °C · Flow rate: 0.5 to 1.0 L / min · Pressure: 0.02 to 0.20 MPa · pH value: 11.0 or less
		· Concurrent phosphate ion concentration: 20 mg / L or less * In the 0 to 10/0 to 100 µg / L range (ultra pure water specification), there is no coexisting phosphate ion.
External input / output	Analog output	Standard: DC 4 to 20 mA or DC 0 to 16 mA ... selected and set by operation unit Select set in the options ... DC 0 ~ 1 V or DC 1 ~ 5 V · hold / marker output ... the operating unit Maximum load 500 Ω or less Input / output isolated type Non-isolated between channels For each measurement line: concentration output
	Contact output	Standard: A contact output (Please specify if you want b contact) Contact capacity AC 250 V 3 A, DC 30 V 3 A ("under maintenance" contact is only DC 30 V 3 A) Measurement line is common: during measurement, during standby, during maintenance, external control status, synchronization signal, instrument error, power off, batch alarm etc.
		For each measurement line: Measurement line, measurement range, sample disconnection, concentration error
	Contact input	No-voltage A contact input (open collector possible) ... It is effective at remote control. Isolated input: (-) side common
		ON resistance: up to 100 Ω Open circuit voltage: Up to DC 26 V Short circuit current: maximum DC 13 mA Measurement line is common: Measurement start, calibration start, cycle switching
	Display	For each measurement line: Measurement line setting, measurement range setting High, measurement range setting Low Color LCD touch panel.
Device function	Memory function	Measured value: capacity 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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Equipamientos Analíticos S.A

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