

For ultra-pure water manaement in semiconductor and FPD processes High Sensitivity Silica Monitor SLIA-300

High sensitivity in a compact body for silica analysis of ultra-pure water

The silica concentration in ultra-pure water has an enormous influence on product accuracy and yields in semiconductor and FPD processes. The SLIA-300 High Sensitivity Silica Monitor perfectly meets the need in these industries for measurement below 1 μ g/L (1 ppb). It is capable of highly sensitive measurement throughout the full measurement range in a compact, desktop unit. Complete with the highly-reputed basic features, such as high-speed response and self-diagnosis, it boasts performance that takes sensitivity to a new level. The SLIA-300 provides the support you need when it comes to pure-water processes in the fabrication of semiconductors and FPDs.



Features

•High sensitivity and high repeatability

Employing newly-developed, unique cell technol-ogy, the SLIA-300 achieves high sensitivity for handling measurements at low concentrations. With a high-speed measurement of five minutes, it guarantees $\pm 2\%$ of full-scale repeatability in a range of 0 to 2 μ g/L.

Desktop-type compact design

Newly developed cell technology enables a breakthrough in compact design. Fitting into small spaces, it is able to accommodate a wider range of installation conditions. Its portability also allows it to be used in multiple locations.

Reaent consumption reduced by 80%

Improved cell technology enables reagent consumption to be reduced to one fifth of its predecessor. Less reagent translates to reduced "Cost-Of-Ownership".

•Up to 6-point measurement possible (option)

Supporting multi-point measurement, a single SLIA-300 is able to measure more points. Set anywhere between one and six points.

Self-diagnosis function checks for running errors

This function monitors and self-diagnoses operational errors relating to sample water and reagent injection, calibration, cell temperature, and lamp operation. If an error arises, the warning lamp illuminates and a text message is displayed.

•Automatic calibration or superior maintainability

Zero calibration is performed automatically prior to each measurement. In addition to verifying light transmission, the effect of turbidity can be corrected.

Reliable light source eliminates need for replacement

The SLIA-300 uses a monochromatic semiconductor light source that provides stable, long-lasting illumination. It can be used as a semi-permanent light source.

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Specifications Principle	Mahukalan yang kiluan yang tikan d	External dimensions Unit: mm
Measuring range	Molybdenum blue method 0 to 2/0 to 20µq/L or 0 to 5/0 to 50 µq/L	580(22.8)
measuring range	(specified when ordering)	450(17.7)
Repeatability	±2% of full scale	(5.1)
Measuring time	5 minutes	
Measuring cycle	5 to 995 minutes	
Indication	Measuring value: 3.5 digits, 7-segment LCD Guidance: 16 characters x 4 lines, dot matrix LCD	
Measuring point	1 to 6 points (specified when ordering)	0(19.7)
Calibration	Standard calibration solution (from factory)	500(19.7) 306(12
Compensation	Blank, Calibration curve (per line)	
Reagent	Reagent A: Sulfuric acid + ammonium molybdate Reagent B: Oxalic acid Reagent C: L (+) - ascorbic acid	
Reagent replacement cycle	1 week (Manufacture's recommendation)	
Power	100 to 240 V AC, 50/60 Hz	
Power consumption	Approx. 600 VA	
Environment condition	 Location: Indoor Temperature: 10 to 35 degrees °C Humidity: 85% or less 	
Sample condition	Sample water temperature: 15 to 35 degrees °C Flow rate: 250 to 300 mL/min (should be adjustable) Pressure: 0.1 to 0.5 MPa (14.5 to 72.5 psi)	375(14.8)
Dimension	375 (H) x 580 (W) x 500 (D) mm 14.8 (H) x 22.8 (W) x 19.7 (D) in	
Mass	Approx. 41 kg (additional 1 kg per sampling point)	
External Output	4 to 20 mA DC, 0 to 16 mA DC, or 0 to 1 V DC (specified when ordering)	
Contact output Contact input		Reagent Silica Monitor bottle unit
	Calibration start, Measurement start, Economy operation, Line selection, Low range measurement, High range measurement]
Serial input/output		
Option	Sample heating unit, Standard solution supply unit, Reagent kit	





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

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