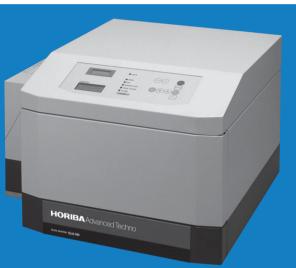


For ultra-pure water manaement in semiconductor and FPD processes

# 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  $\mu$ 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  $\mu$ 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

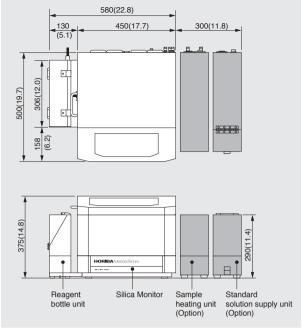
Zero calibration is performed automatically prior to each measurement. In addition to verifying light transmission, the effect of turbidity can be corrected.

## 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.

#### **Specifications** Principle Molybdenum blue method 0 to 2/0 to 20μg/L or 0 to 5/0 to 50 μg/L Measuring range (specified when ordering) Repeatability ±2% of full scale Measuring time 5 minutes Measuring cycle 5 to 995 minutes Measuring value: 3.5 digits, 7-segment LCD Guidance: 16 characters x 4 lines, dot matrix LCD Indication Measuring point 1 to 6 points (specified when ordering) Calibration Standard calibration solution (from factory) 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 · Location: Indoor **Environment condition** 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 (H) x 580 (W) x 500 (D) mm 14.8 (H) x 22.8 (W) x 19.7 (D) in Dimension Mass Approx. 41 kg (additional 1 kg per sampling point) 4 to 20 mA DC, 0 to 16 mA DC, or 0 to 1 V DC External Output input/output (specified when ordering) Contact Measuring lines (common): Measurement, Sync signal, Alarm, Heater, Power-off calibration signal 1, 2, output Upper limit alarm, Sample-off Measuring lines (individually): Measuring range, Sample-off, Upper limit alarm marked notes should be specified when ordering Contact Measuring lines (common): Calibration start, Measurement start, Economy operation, Line selection, Low range measurement, High range measurement Serial input/output RS-232C Option

## External dimensions Unit: mm (in) 580(22.8)





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Reagent kit

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