

The Series 5000 Silica Analyzer

The most reliable silica analyzer – for superior process control. The Hach Series 5000 Silica Analyzer is an essential quality control device for any ultrapure water application. By reliably detecting dissolved silica, this instrument can give you the earliest possible warning that your demineralizer is nearly exhausted and filter breakthrough is imminent.

100% pump-free reagent delivery

A unique pressurized reagent delivery system enables the Hach Series 5000 Silica Analyzer to introduce reagents without a pump – and without the maintenance that pumps chronically require. The system is extremely accurate, and reagent consumption is low. Auto-calibration ensures trouble-free operation for 30 days at a time.

Alarms and outputs

Four programmable alarms are built in for sample concentration alarms, analyzer system warning, and analyzer system shutdown. Analog and digital outputs are available.



Easy set-up and operation

Instrument control is simple with three menus – set-up, calibration and test functions – that guide you through every step of set-up and routine operation.



Learn More About the Series 5000 Silica Analyzer

- Ultrapure water – for applications such as semiconductor manufacturing and pharmaceutical processing
- Power Generation
- High Pressure Boilers

Call us today at **800-227-4224** to find out how the Series 5000 Silica Analyzer can help with your application. Or visit us on-line at **www.hach.com**.

Clear, complete instructions

The Series 5000 Silica Analyzer includes comprehensive, easy-to-read instructions for installation, operation and maintenance.



When silica control is critical, the choice is simple

With proven colorimetric chemistry, easy set-up and trouble-free operation, your best choice for low-level silica monitoring is simple. Choose the 100% pump-free Series 5000 Silica Analyzer. Call Hach today at 800-227-4224. Ask for our free data sheet #4545.



**THERE'S ONLY ONE
WAY TO BE SURE**



Convenient grab sample capability

The Series 5000 Silica Analyzer allows you to verify accuracy at any time using a known standard addition. The grab sample cell is readily accessible, and the process can be completed in only a few minutes without interrupting sample flow.

Reliable, self-correcting operation

Continuous auto-zeroing prevents bias from turbid or colored samples. Self-diagnostics monitor operation and warn of abnormal conditions. A failure alarm shuts down operation when the sample flow is interrupted and restarts when sample is restored.

Pressurized reagent delivery – without a pump!

Hach's patented reagent delivery system is fast, simple and virtually foolproof. Pressurized reagents are released by microprocessor-controlled solenoid valves in precisely measured volumes.

Genuine, pre-mixed Hach reagents

Formulated to meet the strictest quality standards in the industry, Hach reagents are guaranteed for purity, accuracy and stability. Changing reagents takes less than 15 minutes, only once a month. Hach reagents are pre-measured for convenience and guaranteed accuracy.

Series 5000 Silica Analyzer Specifications *

Range

0.0 to 5000 $\mu\text{g/L}$ as SiO_2

Accuracy

0.00 to 500 $\mu\text{g/L}$: $\pm 5\%$ of reading or
1.0 $\mu\text{g/L}$, whichever is greater
500 to 5000 $\mu\text{g/L}$: $\pm 7\%$ of reading

Precision

$\pm 0.5 \mu\text{g/L}$ or $\pm 1.0\%$ of reading,
whichever is greater

Minimum Detection Limit

0.5 $\mu\text{g/L}$

Response time (sample temperature dependent)

8.8 min. for 30 to 50 $^{\circ}\text{C}$
15 min. for 5 to 40 $^{\circ}\text{C}$ (field adjustable)

Recorder Outputs

Selectable for 0-10 mV, 0-100 mV, 0-1V or
4-20 mA. Output span programmable over
any portion of the 0 to 5000 $\mu\text{g/L}$ range.

Serial I/O

RS-232 Output

Alarms

Four programmable relays are built in for
sample concentration alarms (2), analyzer
system warning, and analyzer system
shutdown. Each is equipped with an
unpowered SPDT relay.

Enclosure

ABS plastic NEMA 4X/IP65 cabinet with
gasketed doors

Dimensions

Approximately 33.72 in. (856 mm) tall,
22.2 in. (563 mm) wide,
16.5 in. (419 mm) deep

Power

115/230 VAC, 50/60 Hz, selectable

Certification

Designed to meet UL 1262, CSA C22.2
No. 142, IEC 1010-1, and FCC/CISPR Class A
compliance for EMI/RFI emissions

Call 800-227-4224 to order the Series 5000 Silica Analyzer

Catalog numbers

60000-00 Series 5000 Silica Analyzer
60000-01 Series 5000 Silica Analyzer with
120 VAC sample heater
60000-02 Series 5000 Silica Analyzer with
240 VAC sample heater

*Subject to change without notice.

Hach – World class technology and support

At Hach, state-of-the-art technology is only part of the equation – a given. Combine this with Hach's renowned worldwide support, dedicated technical support staff and skilled, responsive service teams, and you have the formula for success in water analysis and testing.

Pioneering R&D



Since its earliest days, Hach has maintained – in fact, *defined* – the leading technological edge in testing and analysis of water. From sophisticated, high-end laboratory instruments to special on-line process monitoring systems to virtual laboratories-in-a-kit, Hach set the standard for others to follow.

Accuracy, repeatability, reliability

By using its own special reagents – stable, pre-measured, sealed from contamination – Hach has elevated analytical chemistry to a new level of accuracy. Hach's precise sampling, mixing and analytical procedures, designed into every piece of Hach equipment, give you accurate, repeatable results time after time.

Total support – on line, on the phone, at your door



Hach's outstanding technical staff responds quickly and accurately to all calls. From simple questions on the phone to complex inquiries requiring the expertise of our Technical Support Group, to extended on-site visits in the field, Hach support is second to none. Customers can also e-mail their requests to techhelp@hach.com.

The Hach Technical Training Center

The Hach Technical Training Center in Loveland, Colorado has hosted hundreds of chemists, technicians, operators, educators and supervisors, all participating in the most up-to-date, practical analytical training available. Topics cover fields as diverse as water and wastewater, boiler and cooling water, meat and dairy products, microbiology, sludge and soils. For a course schedule call 800-227-4224 ext. 2391.

Factory-trained experts – on call in 95 countries



Hach's dedicated service staff is now available in 95 countries – and counting. Whatever challenge you encounter – choosing the right system, understanding a new procedure, troubleshooting an instrument – Hach's specialists are available to help you.

Installation, warranty and repair assistance can be accessed easily through Hach's toll-free number: 800-227-4224. (Overseas, call the Hach dealer located near you.)



For current price information, technical support and ordering assistance, contact the Hach office or distributor serving your area.

Hach Company is
ISO 9001 Certified

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