

9610 sc SILICA ANALYZER

Applications

- Power



Lower Maintenance, Less Downtime

Delivering reliable results that save you critical time and effort.

90 days of continuous runtime

Only two liters of reagent are required for the analyzer to perform unattended for up to 90 days; twice as long as the previous analyzer versions.

Save time on maintenance

The industry's only pressurized reagent delivery system eliminates the frequent maintenance associated with pumps.

Avoid downtime

Predictive diagnostic tools, including Hach's proprietary Prognosys technology, warning LEDs, and high-visibility notification screens let you avoid unplanned downtime.

Verify easily with Hach Lab products so you don't waste time second-guessing

Grab Sample In and Grab Sample Out features allow quick analysis of a grab sample poured into the analyzer, and facilitate taking a sample out of the analyzer to verify in a lab test.

Technical Data*

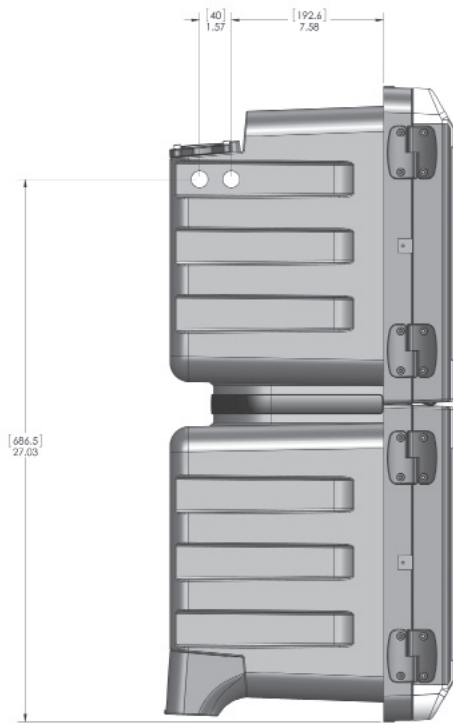
| | | | |
|---------------------------------------|---|-------------------------------------|--|
| Measuring Principle | Colorimetric | Fitting Type | Sample line and sample bypass drain: 6 mm (¼-in.) |
| Range | 0 to 5000 µg/L as SiO ₂ | | Air purge inlet: 6 mm (¼-in.) |
| Accuracy | 0 - 500 µg/L: ±1% or ±1 µg/L of reading, whichever is greater; 500 - 5000 µg/L: ±5% (Tested with Hach reagents) | | Chemical and case drains: 9.5 mm (3/8-in.) |
| Repeatability | ± 0.5 µg/L or ±1% of reading, whichever is greater | Power Requirements (Voltage) | 100 - 240 V AC, 24 V DC |
| Lower Limit of Detection (LOD) | 0.5 µg/L | Power Requirements (Hz) | 50/60 Hz |
| Response Time | Typically, 9.5 minutes at 25 °C (77 °F); changes with temperature | Output | 4 - 20 mA |
| Reagent Consumption | 2 L of each reagent every 90 days with 15 minute cycle time | Dimensions (H x W x D) | 804 mm x 452 mm x 360 mm |
| Operating Temperature Range | 5 - 45 °C (41 - 113 °F) | Enclosure Rating | IP56 / NEMA 4X |
| Operating Humidity | 5 - 95% relative humidity, non-condensing (indoor use only) | Certifications | CE (EN 61326-1: 2006; EN 61010-1: 2010; EN 60529: 1991, +A1:2000) KC (EN 61326-1: 2006) C-tick (EN 61326-1: 2006) cETLus (UL 61010-1: 2012; NEMA 250: 2003; CSA C22.2 No 61010-1: 2012) |
| Sample Pressure | 2 - 87 psi (to Preset Pressure Regulator) | | |
| Sample Temperature | 5 - 50 °C (41 - 122 °F) | | |
| Sample Flow Rate | 55 - 300 mL/min | | |
| Number of Channels | 1, 2, 4, 6; programmable sequence | | |
| Grab Sample | Grab Sample In and Grab Sample Out capability | | |
| Mounting | Wall, panel or table | | |

**Subject to change without notice.*

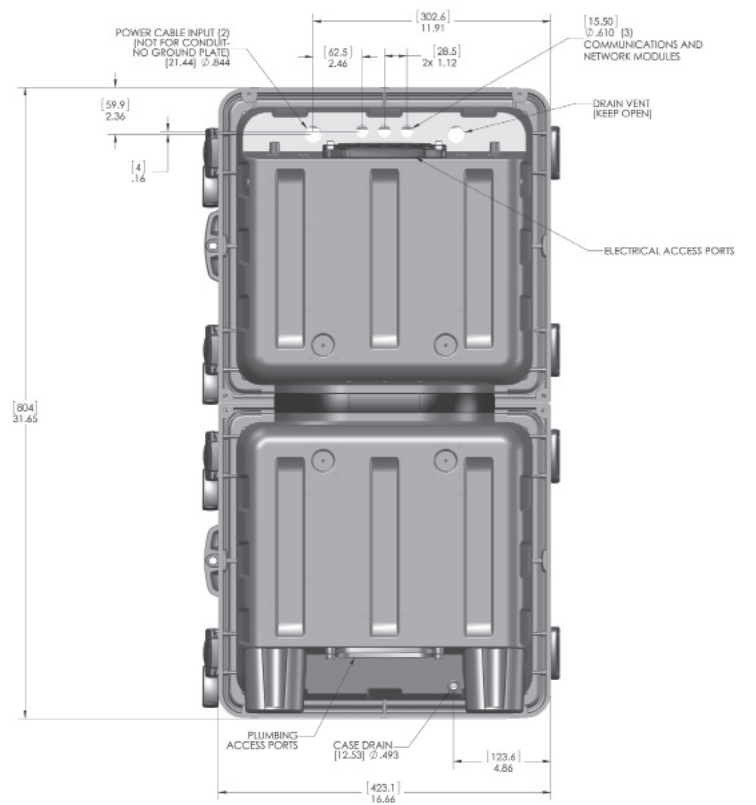
Principle of Operation

Silica in the sample reacts with molybdate ions under acidic conditions to form silicomolybdic acid complexes. Addition of citric acid destroys the phosphate complexes. Amino acid reagent is then added to reduce the yellow silicomolybdic acid to an intense blue color, which is proportional to the silica concentration. Test results are measured at 815 nm.

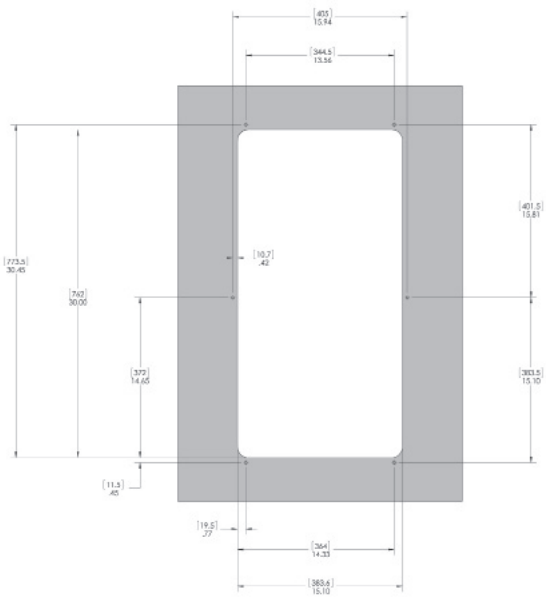
Dimensions



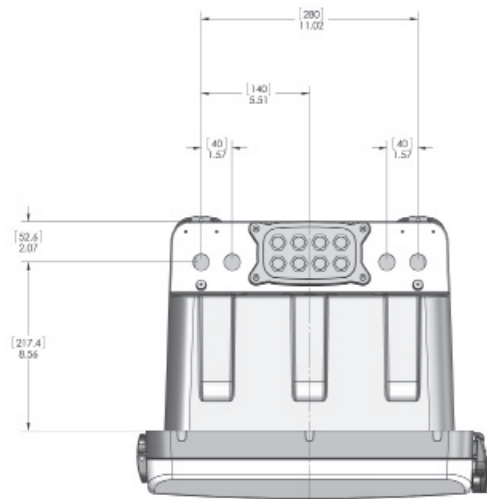
RIGHT SIDE VIEW



REAR VIEW



PANEL CUTOUT



TOP VIEW

Order Information

Instruments

| | |
|------------------------|---|
| 9610.KTO.S0.A1U | 9610 sc Silica Analyzer, open chemistry, 1 channel, 100-240 VAC |
| 9610.KTO.S0.A2U | 9610 sc Silica Analyzer, open chemistry, 2 channels, 100-240 V AC |
| 9610.KTO.S0.A4U | 9610 sc Silica Analyzer, open chemistry, 4 channels, 100-240 VAC |
| 9610.KTO.S0.A6U | 9610 sc Silica Analyzer, open chemistry, 6 channels, 100-240 VAC |
| 9610.KTO.S0.D1U | 9610 sc Silica Analyzer, open chemistry, 1 channel, 24 VDC |
| 9610.KTO.S0.D2U | 9610 sc Silica Analyzer, open chemistry, 2 channels, 24 VDC |
| 9610.KTO.S0.D4U | 9610 sc Silica Analyzer, open chemistry, 4 channels, 24 VDC |
| 9610.KTO.S0.D6U | 9610 sc Silica Analyzer, open chemistry, 6 channels, 24 VDC |

Each Analyzer comes with a Hach reagents set for start up and up to 90 days of use.

Reagents

| | |
|----------------|-----------------------------------|
| 2035600 | 9610 sc Silica Reagent Set |
| 2035702 | 9610 sc Reagent 1 Silica, 2 L |
| 2035802 | 9610 sc Reagent 2 Silica, 2 L |
| 2035902 | 9610 sc Standard 1 Silica, 2 L |
| 2036002 | 9610 sc Reagent 3 Silica, Package |
| 2037502 | 9610 sc Reagent 4 Silica, 2 L |

Accessories/Options

| | |
|----------------|------------------------------------|
| 6786600 | Stainless steel sample adapter kit |
| 1757700 | Stainless steel sample cooler |
| 6792501 | Module kit, Modbus (SC200) |
| 6792601 | Profibus DP Module |

Be certain in your measurements with a first class Service Partner. Be confident with Hach Service.

By having regular on-site preventative maintenance and calibration, you maximize your measurement reliability and instrument uptime. Hach Service Programs give you full assurance that your instruments stay in compliance, and you stay within your budget.

Start-Up:

Commissioning, Instruction and Training of your operating personnel to ensure you get the best performance from your instrumentation from the first day you use it.

Service Agreement:

Hach offers a wide range of service agreements that can be tailored to you to help maximize your measurement reliability and instrument uptime.

Contact us to get a service offering designed for you.

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