

POLYMETRON 9610 sc SILICA ANALYSER

Applications

- Power



Lower Maintenance, Less Downtime

Delivering reliable results that save you critical time and effort.

90 days of continuous runtime

Only two litres of reagent are required for the analyser to perform unattended for up to 90 days; twice as long as the previous analyser 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 Prognosis 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 analyser, and facilitate taking a sample out of the analyser to verify in a lab test.

Technical Data*

Measuring principle	Colorimetric
Measuring range	0 - 5000 µg/L as SiO ₂
Accuracy	0 - 500 µg/L: ±1% or ±1 µg/L of reading, whichever is greater; 500 - 5000 µg/L: ±5% (Tested with Hach reagents)
Repeatability	±0.5 µg/L or ±1% of reading, whichever is greater
Detection limit	0.5 µg/L
Response time	Typically, 9.5 minutes at 25 °C; changes with temperature
Reagent consumption	2 L of each reagent every 90 days with 15 minute cycle time
Operating temperature range	5 - 45 °C
Operating humidity	5 - 95% relative humidity, non-condensing (indoor use only)
Sample pressure	0.14 - 6 bar (to Preset Pressure Regulator)
Sample temperature	5 - 50 °C
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

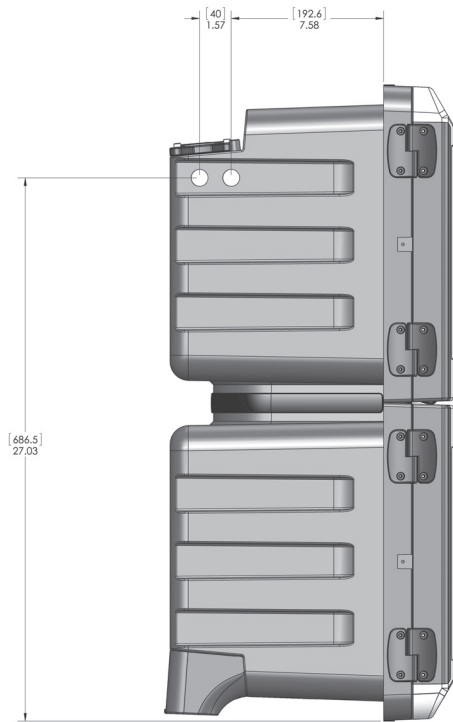
Fitting	Sample line and sample bypass drain: 6 mm (¼-in.) Air purge inlet: 6 mm (¼-in.) Chemical and case drains: 9.5 mm (3/8-in.)
Power requirements (Voltage)	100 - 240 VAC, 24 VDC
Power requirements (Hz)	50/60 Hz
Output	4 - 20 mA
Dimensions (H x W x D)	804 mm x 452 mm x 360 mm
Enclosure waterproof rating	IP56 / NEMA 4X
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)

*Subject to change without notice.

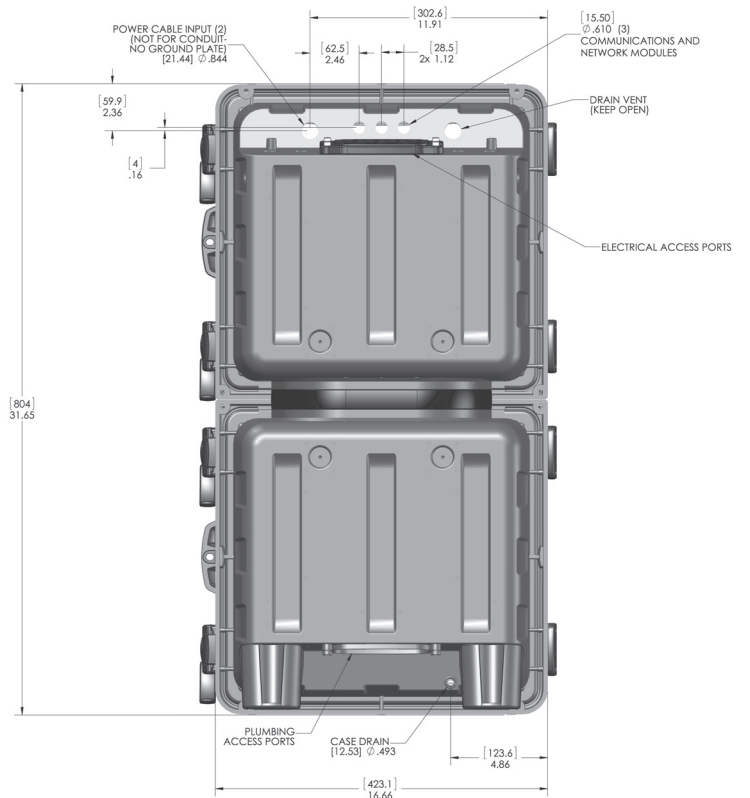
Principle of Operation

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 colour, which is proportional to the silica concentration. Test results are measured at 815 nm.

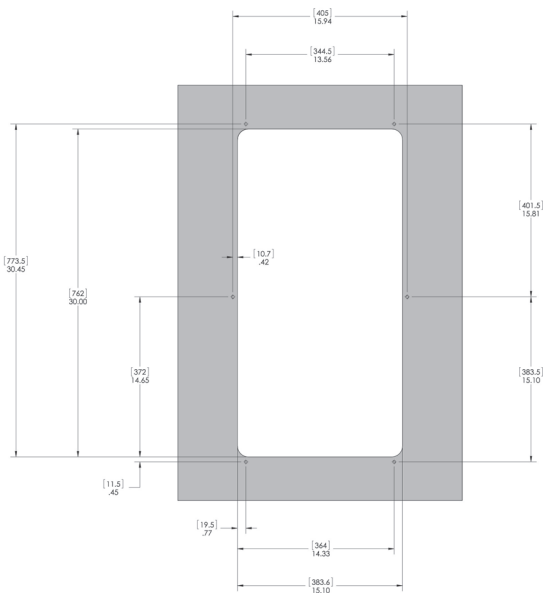
Dimensions



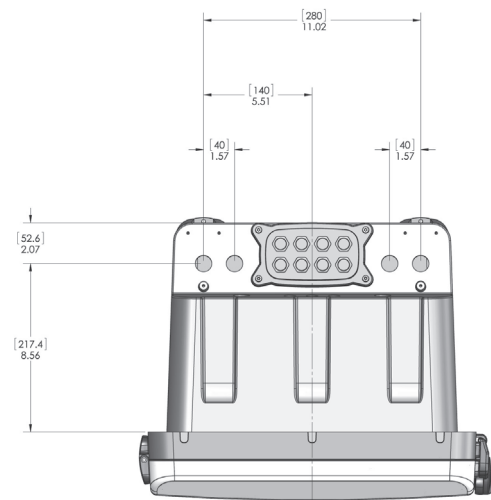
RIGHT SIDE VIEW



REAR VIEW



PANEL CUTOUT



TOP VIEW

Order Information

Instruments

9610.KTO.S0.A1E	Polymetron 9610 sc Silica Analyser, open chemistry, 1 channel, 100-240 VAC
9610.KTO.S0.A2E	Polymetron 9610 sc Silica Analyser, open chemistry, 2 channels, 100-240 V AC
9610.KTO.S0.A4E	Polymetron 9610 sc Silica Analyser, open chemistry, 4 channels, 100-240 VAC
9610.KTO.S0.A6E	Polymetron 9610 sc Silica Analyser, open chemistry, 6 channels, 100-240 VAC
9610.KTO.S0.D1E	Polymetron 9610 sc Silica Analyser, open chemistry, 1 channel, 24 VDC
9610.KTO.S0.D2E	Polymetron 9610 sc Silica Analyser, open chemistry, 2 channels, 24 VDC
9610.KTO.S0.D4E	Polymetron 9610 sc Silica Analyser, open chemistry, 4 channels, 24 VDC
9610.KTO.S0.D6E	Polymetron 9610 sc Silica Analyser, open chemistry, 6 channels, 24 VDC

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

Reagents

2035601	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

9179800	Power cord, Europe
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 maximise 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 maximise your measurement reliability and instrument uptime.

Contact us to get a service offering designed for you.