

## 3041 SILICA ANALYZER

**Waltron's 3041 Silica Analyzer is the first choice for online analysis of dissolved silica in ultrapure water applications.**

The 3041 is trusted world wide to deliver accurate and reliable readings with minimal maintenance and low total cost of ownership. Common application points in a boiler system for online silica measurement include: make-up water, condensate, boiler feedwater, saturated steam/main steam and cooling water.

### FEATURES

**Accurate and wide-range analysis**

**Multi-stream available**

**Fast loop reservoir**

**Adjustable cycle and calibration frequency**

**Automatic calibration and validation (QA/QC)**

**Compact design**

**Color touchscreen display**

**Grab sample capability**

**Internal datalogger**

**Low reagent level alarm**

**No compressed air required**

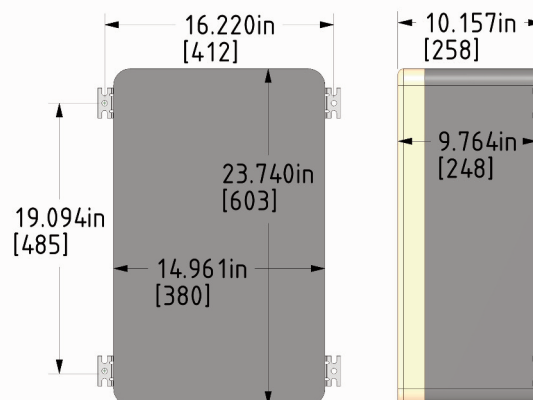
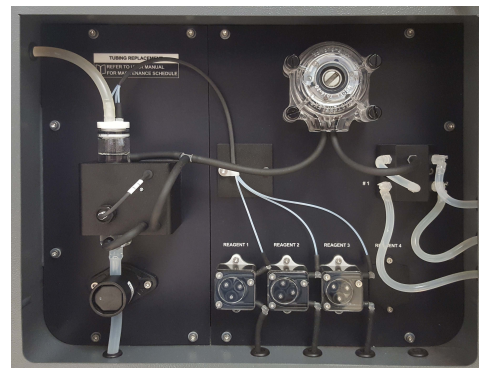
**Automatic start/stop based on sample flow detection**

**Minimal analyzer maintenance**

**Panel mounting bracket available for Hach 5000 replacement**



### Wet Section



See reverse side for specifications.

## 3041 SILICA ANALYZER | GENERAL SPECIFICATIONS

### PERFORMANCE

<b>Range</b>	0-1000ppb, 0-5ppm, 0-150ppm (internal dilution), 0-300ppm (external dilution)
<b>Accuracy</b>	+/- 1 ppb or +/- 2% of reading, whichever is greater
<b>Reproducibility</b>	+/- 1 ppb or +/- 2% of reading, whichever is greater
<b>Analysis Time</b>	12 min, batch process
<b>Sampling Frequency (Cycle Time)</b>	One reading every 20 mins, adjustable
<b>Required Maintenance</b>	Monthly or quarterly replenish reagents; Quarterly replace tubing
<b>Reagent Consumption (approximate)</b>	3 reagents, 2.5L each per month (optional 7.5L for 3 months)
<b>Sensor Classification</b>	Colorimetric with glass flowcell and LED source
<b>Application</b>	Boiler water and cooling water
<b>Ambient Temperature Range</b>	10-45°C analyzer (50-113°F)
<b>Atmospheric Pressure Range</b>	No Limits
<b>Humidity</b>	Up to 90% not condensable
<b>Unit Dimensions</b>	Height=23.6"(60 cm), Width=15"(38 cm), Depth=8.3"(21 cm)
<b>Positioning and Installation Details</b>	Wall mounting, bench supported, or panel mounting (optional)
<b>Weight</b>	17 kg (37.5 lbs.)
<b>Degree of Protection</b>	IP55 (NEMA 4): Wet section, IP65 (NEMA 4x): Electronics
<b>Alarms</b>	2 or 4 configurable alarm relays (Result, loss of sample, fault)
<b>Power Supply</b>	110-220Vac, 50-60 Hz 80 VA
<b>Certification (on request)</b>	Meets low voltage and low electromagnetic compatibility directives

### SAMPLE DELIVERY OPERATING CONDITIONS

<b>Temperature Range</b>	5-55°C (41-131°F)
<b>Inlet Sample</b>	100-500 ml/min, atmospheric, flexible tubing O.D. 1/4"(6 mm)
<b>Outlet Sample</b>	Atmospheric, waste tubing O.D. 3/8"(9 mm)
<b>PH</b>	3-12
<b>Sample Conditioning Requirements</b>	Filtering between 10 and 60 micron, depending on the matrix, needed only to avoid clogging.
<b>Materials in Contact with Sample</b>	Glass, Silicone, Plexiglass, Stainless Steel AISI 316

### SIGNAL OUTPUTS

<b>Analog Outputs</b>	4-20mA (galvanic isolator module available as option) or 0-5V
<b>Serial I/O Options</b>	RS232; RS485; MODBUS; PROFIBUS

### OPERATIONAL CALIBRATION

<b>Single/Multi Point</b>	Multi-Point: zero and mid range
<b>Matrix Corrections</b>	Yes, sample blank correction
<b>Manual/Automatic</b>	Both

102-029-B.1



EXPERTS IN  
WATER CHEMISTRY  
SINCE 1903

#### WALTRON GROUP HEADQUARTERS

25 Minneakoning Road, Suite 101  
Flemington, NJ 08822 USA  
Phone: +1 908 534 5100  
Fax: +1 908 534 5546

[www.waltron.net](http://www.waltron.net)

MA Selmon Company  
4 Oxford road Milford, CT 06460  
Brad@maselmon.com  
(203)377-3525