

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

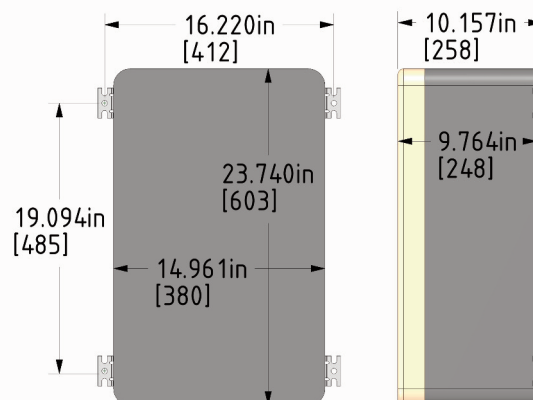
Automatic start/stop based on sample flow detection

Minimal analyzer maintenance

Panel mounting bracket available for Hach 5000 replacement



Wet Section



See reverse side for specifications.

3041 SILICA ANALYZER | GENERAL SPECIFICATIONS

PERFORMANCE

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

SAMPLE DELIVERY OPERATING CONDITIONS

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

SIGNAL OUTPUTS

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

OPERATIONAL CALIBRATION

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

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