

# High Confidence in Water Quality

## Dependable On-line Silica Monitoring



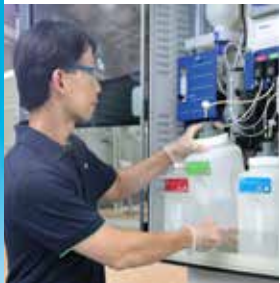
### Ensure Reliability, Increase Productivity

The 2800Si Silica Analyzer delivers reliable, repeatable and accurate measurements of silica in ultrapure water. Continuously monitor and confidently control silica at sub-ppb levels to prevent product quality issues and maintain high performance.



### Greater Confidence, Less Intervention

Performing a zero calibration before each measurement, the 2800Si Analyzer ensures unattended repeatability. The fully automated and comprehensive calibration process means less required user intervention than other on-line silica analyzers.



### Maximize Uptime

With large reagent bottles, the frequency of replacing consumables is less than typical silica analyzers. The robust design requires minimal maintenance for ongoing operations.



### Grab Sample Flexibility

Measures grab samples from any location in the water system to the same level of accuracy and reliability. This secures consistent, low level detection of silica contamination throughout your water quality monitoring process.



## 2800Si Silica Analyzer

### Water Purity Assurance

The 2800Si Silica Analyzer is a reliable on-line instrument designed specifically for microelectronics pure/ultrapure water and power cycle chemistry monitoring. This analyzer provides assurance of water purity to improve product quality and to minimize silica deposition in power plant turbines as well as disruption in semiconductor processes.

The fully automated measurement and calibration capabilities provide early detection of trace contamination with minimal operator supervision.

Discover the 2800Si Silica Analyzer:

► [www.mt.com/2800Si](http://www.mt.com/2800Si)

# 2800Si Technical Data

## Measurement

Range	0.5–5,000 ppb
Resolution	4 digits with decimal, auto-ranging; 0.001 ppb in lowest range
Accuracy	± 5% of reading ±1 ppb, typical
Measurement cycle time	Adjustable, 20 min typical
Reagent consumption	Approx. 4 L per 3 months with 20 min measurement cycle time
Sample flow rate	200–250 mL/min
Sample temperature	5–60 °C (41 – 140 °F)
Sample pressure	0.3–7 bar(g) (5–100 psig)
Zero calibration	Automatic, every measurement cycle
Span calibration	Automatic per schedule; once per month typical
Grab sample measurement	1 L capacity

## Outputs

Analog output	Powered 0/4 – 20 mA, 22 mA alarm, 500 ohm max load, not for use with externally powered circuit
Analog output accuracy	± 0.05 mA
Analog output scaling	Linear, bi-linear, logarithmic (1,2,3,4 decades), auto ranging
Relay contacts	Two unpowered, SPDT, 250 VAC/30VDC, 3 A resistive, freely assignable to set point for silica; other relays used for measurement and auto-cal

## Installation/Power/Enclosure

Operator interface	4-line backlit LCD, 5 tactile keys; simultaneous display of silica concentration and measurement or auto-cal status
Process connections	Sample inlet: 6 mm or 1/4" OD tube SS compression fitting Drain hose: 19 × 25.4 mm (3/4" × 1"), 2 m (6 ft) length included
Power supply	100–240VAC, 50–60Hz, 25W; on power loss all settings are retained without batteries 24VDC, 25W max.; on power loss all settings are retained without batteries
Dimensions HWD	Enclosure: 927 × 531 × 305 mm (36.5" × 20.9" × 12")
Weight	42 kg (93 lbs)
Ambient operating temperature	10 – 50 °C (50 – 122 °F)
Humidity	10 – 90 % non-condensing
Ratings/Approvals	CE, cULus

[www.mt.com/thornton](http://www.mt.com/thornton)

For more information

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Development, production and testing to ISO 9001.



CE Compliant



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Meets Canadian Standards