

Save Space and Increase Productivity

On-line Silica and Phosphate Monitoring



Small Footprint, Greater Functionality

The 2850Si silica analyzer delivers silica and phosphate analysis in a compact and robust design for maximum operational flexibility. 3-in-1 multi-stream silica and phosphate capabilities allow you to do more than ever before with a single analyzer.



Achieve Low Total Cost of Ownership

Using 75% less reagents, a single 2850Si silica analyzer does twice the monitoring with sub-ppb silica and ppm phosphate analysis for power plant chemistry, reducing overall reagent consumption and operating costs.



Eliminate Complexity with Intuitive UI

The 2850Si silica analyzer has a built-in M800 Transmitter. The intuitive user interface guides you through quick setup and allows you to create shortcuts. Easy configuration helps meet specific display needs and simplifies training and operation.



Simplify Your Maintenance Strategy

Monitoring of reagent usage and tube/filter status with Intelligent Sensor Management (ISM®) enables proactive inventory and service planning. Simplify maintenance further by using METTLER TOLEDO expert services to ensure optimal performance throughout the life of the analyzer.



2850Si Silica Analyzer

Do More with Less

This 3-in-1 water chemistry solution features fast and reliable silica analysis, integrated phosphate measurement and a built-in sequencer, allowing you to do more with a single analyzer. Maximize uptime and achieve superior performance in this compact analyzer with intelligent diagnostics.

Make the most of valuable panel space by implementing or upgrading to this compact, space-saving analyzer, that allows you to expand your analytics without expanding your budget.

Discover the 2850Si Silica Analyzer:

► www.mt.com/2850Si

2850Si Technical Data

Measurement

Silica measurement range	0.5 – 5000 ppb
Phosphate measurement range	0.3 – 10 ppm
Silica measurement accuracy	±5% of reading or ±1 ppb, whichever is greater
Phosphate measurement accuracy	±10% of reading or ±0.3 ppm, whichever is greater
Resolution	4 digits with decimal; 0.001 ppb or ppm in lowest range
Measurement cycle time	Adjustable ≥ 10 min; 20 min typical
Reagent consumption	Approx. 500 mL each per 3 months with 20 min measurement cycle time
Sample flow rate	50 – 250 mL/min
Sample temperature	5 – 60 °C (41 – 140 °F)
Sample pressure	0.3 – 7 bar (5 – 100 psig)
Zero calibration	Automatic, every measurement cycle
Span calibration	Automatic per schedule; twice per month, typical
Grab sample measurement	500 mL capacity

Outputs

Analog output	8 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	4-SPST mechanical rated at 250VAC, 3 A; 4-SPST Type Reed 250VAC or DC, 0.5 A
Digital Input	Remote start/stop of measurement cycle
Communication	PROFIBUS DP

Installation/Power/Enclosure

Operator Interface	TFT color touchscreen; simultaneous display of silica/phosphate concentration and measurement or auto-cal status
Process connection	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	100–240 VAC, 50–60 Hz, 2.5 A max; 24 VDC, 65 W; all settings retained on power loss
Dimensions HWD	Enclosure: 543 × 396 × 300 mm (21.4" × 15.6" × 11.8")
Weight	18 kg (40 lbs)
Ambient operating temperature	10 – 50 °C (50 – 122 °F)
Humidity	10 – 90 % non-condensing
Ingress protection	IP66/NEMA4X (Electronics); IP55 (Enclosure)
Ratings/Approvals	CE, cULus

ISM is a registered trademark of the METTLER TOLEDO Group.

www.mt.com/thornton

For more information

METTLER TOLEDO Group

Process Analytics Division

Local contact: www.mt.com/pro-MOs

Subject to technical changes

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Quality certificate.

Development, production and testing to ISO 9001.



CE Compliant



UL listed
Meets Canadian Standards