

Automated Sodium Measurement Reliable Trace Level Monitoring



High Confidence at a Glance

The 2300Na Sodium Analyzer delivers more than monitoring at sub-ppb sodium concentration levels. The simultaneous display of temperature, adjusted pH and calibration progress provide a complete picture to increase uptime and reduce operating costs.



Advanced Safety Meets High Reliability

The fully-enclosed 2300Na Sodium Analyzer protects all components, preventing damage from outside interference. This ensures safe, reliable and continuous operation. Further improve safety by reducing reagent handling time with the internal pH check.



Greater Accuracy, Unattended

The 2300Na Sodium Analyzer eliminates the need for operator intervention with pre-configured, periodic self-calibration. Providing greater measurement accuracy, an internal pH measurement ensures interference-free sodium determination.



Low Maintenance Made Easy

With 6-month preventive maintenance intervals, the 2300Na Sodium Analyzer requires less downtime and reduces critical operator time commitment. Every calibration automatically performs sensor conditioning, further reducing the maintenance effort.



2300Na Sodium Analyzer Safeguard Water Purity

The 2300Na Sodium Analyzer provides highly reliable on-line sodium measurement for microelectronics pure/ultrapure water and power cycle chemistry monitoring. This analyzer safeguards water purity with early warning of possible ionic breakthrough – minimizing the impacts of corrosion in power plant turbines as well as disruption in semiconductor processes.

The fully automated measurement and calibration capabilities ensure safe, simple and effective detection of trace contamination with minimal operator supervision.

Discover the 2300Na Sodium Analyzer:

► www.mt.com/2300Na

2300Na Technical Data

Measurement

Range	0.001–100,000 ppb or equivalent ppm, auto-ranging
Resolution	4 digits with decimal, auto-ranging; 0.001 ppb in lowest range
Accuracy	± 10% of reading ± 0.05 ppb, typical
Response time (90%)	5 min
Update rate	Once per second
Reagent consumption	Diisopropylamine, DIPA, approximately 0.7 L filling per 2 months; more at higher temperatures and for cation exchange samples
Sample pH	2.5 – 12
Sample flowrate	> 40 mL/min (> 20 mL/min for cation exchange samples), excess to drain
Sample temperature	5–50 °C (41–122 °F)
Sample pressure	0.3–7 bar(g) (5–100 psig)
Calibration	Automatic, unattended 3-point known addition; manual 1- or 2-point
Electrode conditioning	Part of auto-cal sequence
Grab sample measurement	Included
Range (temperature)	0–100 °C

Outputs

Analog outputs	For sodium, conditioned pH, temperature; four powered 0/4-20 mA, 22 mA alarm, 500 ohm max load, not for use with externally powered circuits
Analog output accuracy	± 0.05 mA
Analog output scaling	Linear, bi-linear, logarithmic (1,2,3 or 4 decades) or auto ranging
Relay contacts	Two unpowered, SPDT, 250 VAC/30VDC, 3 A resistive, freely assignable to set points for sodium, pH, temperature; other relays used for auto-cal

Installation/Power/Enclosure

Operator interface	4-line backlit LCD, 5 tactile keys; simultaneous display of sodium, conditioned pH, auto-cal status (temperature optional)
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	100–240 VAC, 50–60 Hz, 35 W; on power loss all settings are retained without batteries
Dimensions HWD	Enclosure: 900 × 450 × 190 mm (35.4" × 17.7" × 7.5")
Weight	27 kg (60 lbs)
Ambient operating temperature	10 – 45 °C (50 – 113 °F)
Humidity	10 – 90 % non-condensing
Ratings/Approvals	CE, cULus

www.mt.com/thornton

For more information

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Quality certificate.
Development, production and testing to ISO 9001.



CE Compliant



UL listed
Meets Canadian Standards