Polymetron NA9600 sc Online Sodium Analyzer

Applications

- Industrial Water
- Power

Prognosys® Enabled

Ensure uptime with accurate, low-level sodium measurements and predictive diagnostics.

Be confident in your steam cycle water with proprietary predictive diagnostic tools, automatic electrode reactivation to avoid downtime, less maintenance with 90-day reagent replacement, and a convenient small footprint for easy integration with the new Polymetron NA9600 sc Sodium Analyzer.

Optimize Operation and Response Time with Automatic Electrode Reactivation

To maintain optimum response time and accuracy, the NA9600 sc analyzer provides automatic electrode reactivation. Reactivation uses non-hazardous chemicals and eliminates the need for manual reactivation or electrode etching.

Low Maintenance

Maintenance of the NA9600 sc Sodium Analyzer requires reagent replenishment only every 90 days and annual replacement of reagent tubing and the sodium electrode. Clear step-by-step instructions are provided to simplify maintenance operations.

Space-Saving Design

Smaller instrument footprint with streamlined layout to allow for easy integration into existing or new sites.

Avoid Downtime

Predictive diagnostic tools, including Hach' s proprietary Prognosys technology, warning LEDs, and high visibility notification screens let you avoid unplanned downtime.

HACH®

Be Right™

Technical Data*

Range	Analyzers without cationic pump: 0.01 ppb - 10,000 ppb Analyzers with cationic pump: 0.01 ppb - 200 ppm
Repeatability	< 0.02 ppb or 1.5% reading (whichever is greater) within ±10 ° C (±50 ° F) variation
Lower Limit of Detection (LOD)	0.01 ppb
Response Time	From 0.1 ppb to 10 ppb: T90 ≤ 3 minutes, T95 ≤ 4 minutes From < 1 ppb to 100 ppb: T90 < 2 minutes, T95 < 3 minutes (about 150 s)
Calibration Method	Automatic with known addition Manual: 1 or 2 points
Sample conditioner	For non-cationic applications: Di-isopropylamine (DIPA) (1 L/90 days) at 25 ° C for a sample pH target of 10.5 For cationic applications: DIPA (1 L/month) at 25 ° C for a sample pH target of 10.5
Number of Channels	1, 2 or 4 with programmable sequence
Max. Concentration of Suspended Solids in Sample	< 2 NTU, no oil, no grease For boiler sample type install approx. 100 µm filter
Acidity	< 50 ppm, non-cationic application < 250 ppm, cationic application
Sample Temperature	5 - 45 °C (41 - 113 °F)
Ambient Temperature	5 - 50 °C (41 - 122 °F)
Sample Pressure	0.2 - 6 bar (3 - 87 psi)
Sample Flow Rate	100 - 150 mL/min (6 - 9 L/h)
Inlet	Sample line and sample bypass drain: 6 mm O.D. push-to-connect fitting for plastic tubing Chemical and case drains: 7/16 inch I.D. slip-on fitting for soft plastic tubing
Power Requirements (Voltage)	100 - 240 VAC
Power Requirements (Hz)	50/60 Hz
Protection Rating	Analyzer with enclosure: NEMA 4/IP65 Analyzer without enclosure: IP65, PCBA housing
Display	Colored 5.7" LCD
Analog Outputs	6 isolated, 0 - 20 mA or 4 - 20 mA; load impedance: 600 Ohm maximum Connection: 0.644 - 1.29 mm² (24 - 16 AWG) wire; 0.644 - 0.812 mm² (24 - 20 AWG) recommended, twisted pair shielded wire
Relay Output	6; type: not powered SPDT relays, each rated at 5 A resistive, 240 VAC maximum Connection: 1.0 - 1.29 mm² (18 - 16 AWG) wire; 1.0 mm² (18 AWG) stranded recommended, 5 - 8 mm O.D. cable
Digital Inputs	6; non programmable, isolated TTL type digital input or as a relay Open - collector type input 0.644 - 1.29 mm2 (24 - 16 AWG) wire; 0.644 - 0.812 mm2 (24 - 20 AWG) stranded recommended
Material	Polyol case, PC door, PC hinges and latches, 304/316 SST hardware
Dimensions	Analyzer with enclosure: 681 mm x 452 mm x 335 mm (H x W x D) Analyzer without enclosure: 681 mm x 452 mm x 254 mm (H x W x D)
Weight	Analyzer with enclosure: 20 kg (40.1 lb) with empty bottles Analyzer without enclosure: 14 kg (30.7 lb) with empty bottles
Maintenance Interval	Every 90 days: refill electrolyte, reactivation, conditioning, and calibration solution

*Subject to change without notice.

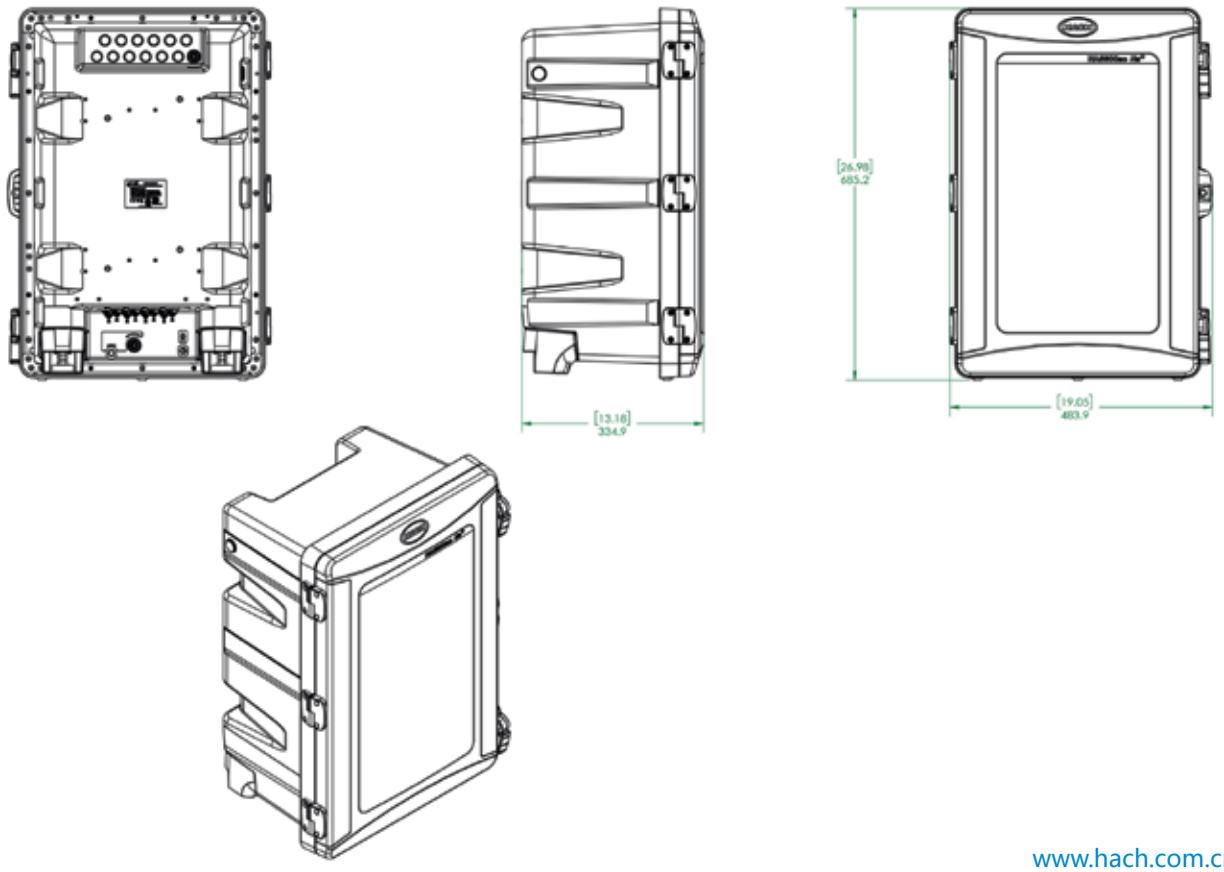
Principle of Operation

The Polymetron NA9600 sc Sodium Analyzer uses an ion-selective electrode measurement after pH conditioning. Sample pH conditioning is essential for limiting the interference of temperature or other ions on sodium measurement. Constant, temperature-compensated buffering is assured using regulated reagent addition across sample pH and temperature changes. In case of a multichannel versionthe "smart" rinsing sequence between channels ensures a minimum cycle time of 10 minutes and no carry-over effect.

Dimensions

Panel Version

Panel Version



Order Information

Analysers

Panel Mount Unit	Unit with Enclosure	
LXV526.97.2011G	LXV526.97.1011G	Polymetron NA9600sc Sodium Analyzer , 1-channel
LXV526.97.2012G	LXV526.97.1012G	Polymetron NA9600sc Sodium Analyzer , 2-channel
LXV526.97.2014G	LXV526.97.1014G	Polymetron NA9600sc Sodium Analyzer , 4-channel
LXV526.97.2111G	LXV526.97.1111G	Polymetron NA9600sc Sodium Analyzer , 1-channel, with Autocalibration
LXV526.97.2112G	LXV526.97.1112G	Polymetron NA9600sc Sodium Analyzer , 2-channel, with Autocalibration
LXV526.97.2114G	LXV526.97.1114G	Polymetron NA9600sc Sodium Analyzer , 4-channel, with Autocalibration
LXV526.97.2211G	LXV526.97.1211G	Polymetron NA9600sc Sodium Analyzer , 1-channel, with Cation Kit
LXV526.97.2212G	LXV526.97.1212G	Polymetron NA9600sc Sodium Analyzer , 2-channel, with Cation Kit
LXV526.97.2214G	LXV526.97.1214G	Polymetron NA9600sc Sodium Analyzer , 4-channel, with Cation Kit
LXV526.97.2311G	LXV526.97.1311G	Polymetron NA9600sc Sodium Analyzer , 1-channel, with Cation Kit & Autocalibration
LXV526.97.2312G	LXV526.97.1312G	Polymetron NA9600sc Sodium Analyzer , 2-channel, with Cation Kit & Autocalibration
LXV526.97.2314G	LXV526.97.1314G	Polymetron NA9600sc Sodium Analyzer , 4-channel, with Cation Kit & Autocalibration

Upgrade Options

8371200	Kit, K-pump Polymetron NA9600 sc
9013200	Modbus RS232/485 Module
9173900	Profibus DP Module
8425700	Hart Module
8428000	Prognosys Polymetron NA9600 sc License Kit

Accessories

595=010=000	Sample Filter, 100 micron, metric fittings
595=010=005	Sample Filter; 100 micron, imperial fittings
8368900	Kit, Heater Exchange, Polymetron NA9600 sc

Consumables and Spare Parts

9660500	Polymetron NA9600 sc one year spare parts kit
595=010=906	Replacement Filter Cartridges, pk/6
2835153	Sodium Standard, 10 ppm, 1 L
2834253	Sodium Standard, 100 ppm, 1 L
2507149-CN	Sodium Nitrate, 0.5M, 500 mL

Be confident with Hach Service

Start-Up/Commissioning: Our service technicians visit your site and setup instrumentation, provide basic end-user training on operations and maintenance, and validate settings and performance to get you started.
Service Agreement: Hach provides on-site and in-factory repair, preventive maintenance, and calibration programs for your instruments to ensure reliability and instrument up-time. We have services to fit your specific needs.

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