NA5600sc Online Sodium Analyser

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 Hach® NA5600sc Sodium Analyser.

Optimise Operation and Response Time with Automatic Electrode Reactivation

To maintain optimum response time and accuracy, the NA5600sc analyser provides automatic electrode reactivation. Reactivation uses non-hazardous chemicals and eliminates the need for manual reactivation or electrode etching.

Space-Saving Design

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

Low Maintenance

Maintenance of the NA5600sc Sodium Analyser 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.

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*

Measuring range	Analysers without cationic pump: 0.01 ppb - 10,000 ppb Analysers with cationic pump: 0.01 ppb - 200 ppm
Repeatability	< 0.02 ppb or 1.5% reading (whichever is greater) within ± 10 °C variation
Detection limit	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
Ambient temperature	5 - 50 °C
Sample pressure	0.2 - 6 bar
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 V AC
Power requirements (Hz)	50/60 Hz
Protection rating	Analyser with enclosure: NEMA 4/IP65 Analyser without enclosure: IP65, PCBA housing
Display	Coloured 5.7" LCD
Analogue outputs	6 isolated, 0 - 20 mA or 4 - 20 mA; load impedance: 600 Ohm maximum Connection: 0.644 - 1.29 mm^2 (24 - 16 AWG) wire; 0.644 - 0.812 mm^2 (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 mm^2 (18 - 16 AWG) wire; 1.0 mm^2 (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 mm^2 (24 - 16 AWG) wire; 0.644 - 0.812 mm^2 (24 - 20 AWG) stranded recommended
Material	Polyol case, PC door, PC hinges and latches, 304/316 SST hardware
Dimensions	Analyser with enclosure: 681 mm x 452 mm x 335 mm (H x W x D) Analyser without enclosure: 681 mm x 452 mm x 254 mm (H x W x D)
Weight	Analyser with enclosure: 20 kg with empty bottles Analyser without enclosure: 14 kg with empty bottles
Maintenance interval	Every 90 days: refill electrolyte, reactivation, conditioning, and calibration solution

**Subject to change without notice.*

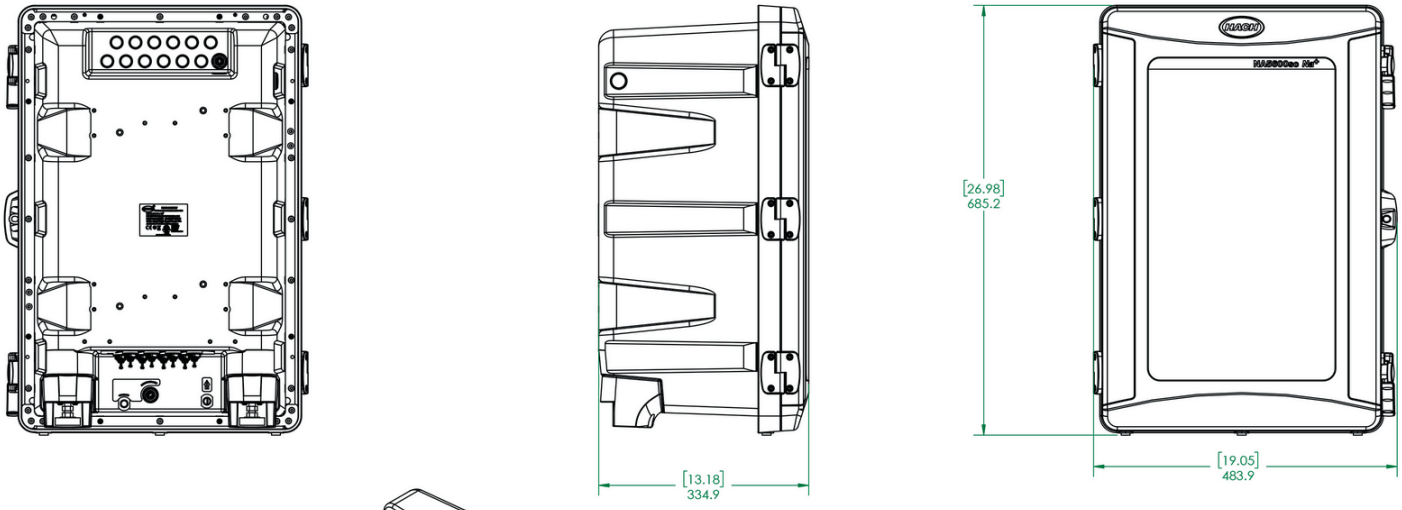
Principle of Operation

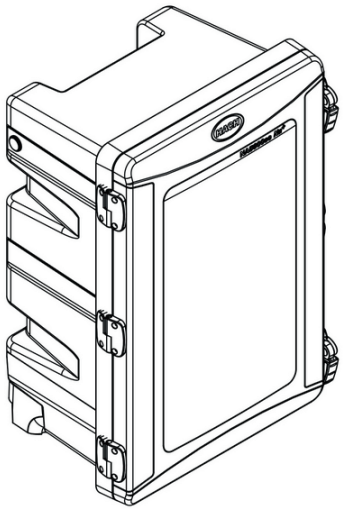
The Hach NA5600sc Sodium Analyser uses an ion-selective electrode measurement after pH conditioning. Sample pH conditioning is essential for limiting the interference of temperature or other ions on sodium measurement. Constant, temperature-compensated buffering is assured using regulated reagent addition across sample pH and temperature changes. In case of a multichannel version the “smart” rinsing sequence between channels ensures a minimum cycle time of 10 minutes and no carry-over effect.

Dimensions

Panel Version

Enclosure Version





Order Information

Analysers

Unit with Enclosure	Panel Mount Unit	
LXV526.98.1011A	**LXV526.98.2011A**	NA5600sc Online Sodium Analyser, 1-channel
LXV526.98.1012A	**LXV526.98.2012A**	NA5600sc Online Sodium Analyser, 2-channel
LXV526.98.1014A	**LXV526.98.2014A**	NA5600sc Online Sodium Analyser, 4-channel
LXV526.98.1111A	**LXV526.98.2111A**	NA5600sc Online Sodium Analyser, 1-channel, with Autocalibration
LXV526.98.1112A	**LXV526.98.2112A**	NA5600sc Online Sodium Analyser, 2-channel, with Autocalibration
LXV526.98.1114A	**LXV526.98.2114A**	NA5600sc Online Sodium Analyser, 4-channel, with Autocalibration
LXV526.98.1211A	**LXV526.98.2211A**	NA5600sc Online Sodium Analyser, 1-channel, with Cation Kit
LXV526.98.1212A	**LXV526.98.2212A**	NA5600sc Online Sodium Analyser, 2-channel, with Cation Kit
LXV526.98.1214A	**LXV526.98.2214A**	NA5600sc Online Sodium Analyser, 4-channel, with Cation Kit
LXV526.98.1311A	**LXV526.98.2311A**	NA5600sc Online Sodium Analyser, 1-channel, with Cation Kit & Autocalibration
LXV526.98.1312A	**LXV526.98.2312A**	NA5600sc Online Sodium Analyser, 2-channel, with Cation Kit & Autocalibration
LXV526.98.1314A	**LXV526.98.2314A**	NA5600sc Online Sodium Analyser, 4-channel, with Cation Kit & Autocalibration

Upgrade Options

8371200	Kit, K-pump NA5600sc
9013205	Modbus RS232/485 Module
9173900	Profibus DP Module (SC200)
8425800	Hart Module
8428000	Prognosys NA5600sc 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, NA5600sc

Consumables and Spare Parts

9660500	NA5600sc one year spare parts kit
595=010=906	Replacement Filter Cartridges, pk/6
Z363140,00500	Reference Electrolyte, KCl, 3 M, 500 mL
2834453	Diisopropylamine, 99%, 1 L
2835153	Sodium Standard, 10 ppm, 1 L
2834253	Sodium Standard, 100 ppm, 1 L
2507149	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.

DOC053.52.35149.Nov18