

- ✓ Ensure Online Energy Supply
- ✓ Protect Equipment
- ✓ Save Time and Costs

Complete Water Analysis Solutions for **Power and Steam Generation**



Be Right™

The Water Analysis Experts for Power and Steam Generation

With more than 90 years as the leading expert in water quality analysis, Hach® provides the knowledgeable and responsive support team you trust to address your unique needs for water and steam applications throughout your entire process.

Hach provides solutions for laboratory, online and portable products whether your application is routine or challenging. We also provide service and training solutions that support you and our products.

Hach has the most comprehensive coverage for all types of water quality from source water to ultrapure. Our breadth of product solutions support all power plants whether fossil or nuclear, as well as cogeneration and steam production, and waste-to-energy.

Influent water treatment

Demineralization

Make-up water

Steam cycle

Cooling Water

Return Condensate

Wastewater

Laboratory

Featured water analysis solutions

Phosphate

5500sc Phosphate Analyser

Only two liters of reagents are required for the analyser to perform unattended for up to 90 days. The industry's only pressurised reagent delivery system eliminates frequent pump maintenance. Predictive diagnostic tools, including Hach's proprietary Prognosys technology, warning LEDs, and high-visibility notification screens let you avoid unplanned downtime.



Phosphax sc LR Low Range Phosphate Analyser

Hach's digital on-site analyser Phosphax sc with weatherproof housing is ideal for the high-precision determination of Ortho-Phosphate concentration directly at the tank. The instrument offers a wide measurement range for a variety of wastewater applications with detection limits as low as 0.015 mg/L PO₄-P and low response time including sample preparation.



Phosphax sc Phosphate Analyser

Ideal for the high-precision determination of Ortho-Phosphate concentration directly at the tank. The instrument offers a wide measurement range for a variety of water applications with detection limits as low as 0.05 mg/L and response time of less than five minutes including sample preparation.



Silica

5500sc Silica Analyser

Only two liters of reagents are required for the analyser to perform unattended for up to 90 days. The industry's only pressurised reagent delivery system eliminates frequent pump maintenance. Predictive diagnostic tools, including Hach's proprietary Prognosys technology, warning LEDs, and high-visibility notification screens let you avoid unplanned downtime.



Ammonium Analysers

NH6000sc Ammonium Analyser

With gas sensitive electrode, this instrument is designed for the high-precision determination of ammonium concentration directly in the tank. The analyser offers a high degree of accuracy due to sensitive GSE instrumentation and needs only minimal supervision thanks to automatic cleaning and calibration and self-diagnosis.



5500sc Ammonia Monochloramine Analyzer

Continuous monitoring gives you the information needed to control your chloramination process. It further provides all the information needed to eliminate nitrification events, taste and odour issues for confidence in your chloramination process.

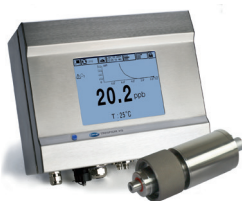


Dissolved Gases

Orbisphere K1100 Optical O₂ Sensor

Achieve high accuracy in low ppb range with no membranes.

- Maintenance one time per year
- K1200 available for irradiated water applications, providing real-time data while reducing overall dose
- No interference by magnetite, hydrogen or flow



Orbisphere 510 Multi-Channel Controller

Provides the complete solution in dissolved gas monitoring.

- Accurate, repeatable, trace-level measurements
- Data management
- Complements Orbisphere sensors



Orbisphere Hydrogen TC Sensor

Monitor hydrogen in the power production process.

- Patented thermal conductivity (TC) sensor
- Continuous measurements
- Gaseous or liquid samples



Orbisphere 3100 Portable Optical O₂ Analyzer

Mitigate risk with the most rugged portable O₂ analyzer in the power industry.

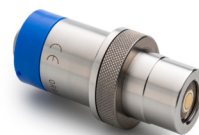
- Accurate results in seconds; ready to measure right out of the box
- Calibration one time per year
- Internal data storage and export via USB interface



Orbisphere GA2400 O₂ EC Sensor

Achieve highly accurate results for very low oxygen levels.

- Electrical conductivity (EC) sensor
- Unrivalled highly accurate reading at $\pm 1\%$ at very low DO levels down to 0.1 ppb
- Easy and fast maintenance
- Robust for harsh environments



Conductivity / pH / ORP

9523 sc Specific and Cationic Conductivity, and pH analyzer

Calculate accurate pH measurements without interference from contaminants.

- More contaminant-resistant than traditional pH probes



9525 sc Degassed Cation Conductivity Panel System

Measure conductivity following the removal of CO₂ gas from the sample stream.

An integrated system, now available with a regenerative cooling option that measures:

- Specific conductivity (SC)
- Cation conductivity (CC)
- Degassed cation conductivity (DCC)
- Calculated pH



Contacting Conductivity Sensors

A broad range of product options is available to meet your unique needs.

- Robust construction
- 316 stainless steel
- Integrated temperature sensor



SC4500 Controller

Deploy the most versatile controller on the market.

- Graphical user interface helps indicate when errors or warnings occur
- Supports the use of pH/ORP and conductivity ultra pure modules





8362 pH or ORP Sensor for High Purity Water

High-purity applications require accurate temperature sensitivity and a constant flow of electrolyte to the sample stream.

- Self-pressurizing electrode
- Unique construction made of stainless steel
- The entire system is grounded and shields the measuring electrode from EMI and RFI interference



Total Organic Carbon (TOC)

QP1680 Benchtop TOC Analyser

- Available as a combined TOC and TNb analyser or for the individual parameters
- Direct sample injection minimises the risk of sample carry-over.
- Large diameter sample aspiration tubing handles particles up to 800 µm, expanding possible applications and reducing clogging.
- Integrated stirrer homogenizes particle-containing samples before injection.
- Requires less space in the laboratory with simple operations, data analysis and system diagnosis



BioTector B3500c TOC Analyzer

- Identify a wide range of contamination with a powerful, patented oxidation technology
- Certified uptime of 99.7%, maintenance only 2x per year
- TIC, TOC and VOC analytics in a single analyzer



FP360 sc Oil in Water Sensor

- Continuous online monitoring
- Low maintenance
- Easy to clean





Process Sensors

UVAS plus sc Sensor

The UVAS plus sc probe covers a broad spectrum of applications, including: protection of treatment plants from industrial dischargers, monitoring shock loads from internal plant processes, control of activated sludge processes, control methanol feed in BNR based on organic loading, final effluent monitoring and monitoring efficiency of UV disinfection processes.



Turbidity & Corrosion Monitoring

TU5 Series Lab and Online Turbidimeters

A patented optical design delivers the best low-level precision and sensitivity.

- 98% less surface area to clean
- Online and lab results that match



DRB200 Reactor Heating Block

Combine DRB200 and lab tests with DR3900 and TU5400 online turbidimeter to get a clear view on:

- Iron transport
- Total and dissolved iron
- Ultra low range iron



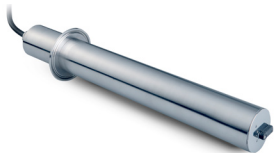
Solitax sc Sensors

- Designed for the accurate determination of turbidity and suspended solids
- Accordance with DIN EN ISO
- Using the infrared duo scattered light method
- Solitax sc sensors can be connected to all SC controllers
- Self-cleaning wiper



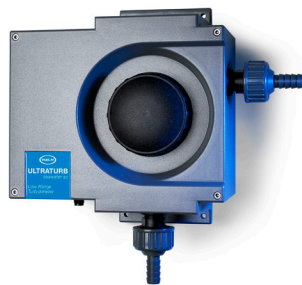
TSS sc Sensor

- Made of highly polished stainless steel or titanium
- Two channel 90 degree scattered light turbidity method
- Accordance with DIN EN ISO 7027
- Integrated bubble and temperature compensating software



Ultraturb seawater sc Turbidimeter

The Hach Ultraturb sensor is Hach's most versatile turbidimeter. With its wide measurement range (0-1,000 NTU) and optional automatic cleaning system, the Ultraturb is well suited for everything from filter effluent and distribution systems to raw water monitoring.



Disinfection

Ultra Low Range CL17sc Colorimetric Chlorine Analyzer

Take control of challenging water treatment processes with an analyzer that maintains accuracy across a wide range of sample conditions.



- Wide range of controller mounting options available.
- Reliable, direct total chlorine results
- 8 ppb detection limit
- Cumulative Chlorine Counter™

DR1300 FL Portable Fluorometer

- Provides precise and accurate results
- Tests are easy-to-perform, with ULR analysis in minutes
- Reduce biofouling potential
- Save on dechlorination costs
- Handles traditional interferences with ease
- Bluetooth capability allows easy data transfer
- Decrease in toxic reagents and chemical waste



CL10sc Amperometric Chlorine Analyzer

A pioneering solution for reagentless amperometric chlorine measurement, marking a significant advancement in water treatment monitoring technology. Offering continuous readings in real-time, this sensor empowers operators with immediate insights into changes in treatment conditions, enabling proactive control measures to maintain optimal water quality.



Photometry

DR3900 VIS and DR6000 UV-VIS Photometers

Trace your sample from collection to preparation, sample analysis, to documentation.

- RFID technology
- Pre-programmed with power industry-specific methods
- Measures chlorine, silica, phosphate, oxygen scavengers, TOC, iron and copper



Microbial Load

EZ7300 ATP Analyzer

Monitor total bacterial and pathogen load in water.

- Complete ATP recovery, differentiating living biomass from non-living
- Complies with ASTM D4012-81
- Low maintenance



Hardness & Alkalinity

EZ4000 Single-Parameter Titrator

Smart automatic features for validation, priming, and cleaning providing excellent analytical performance and maximized uptime.

- Rugged mainframe with compact footprint
- Analysis of up to eight sample streams



EZ5000 Multi-Parameter Titrator

Measure up to four parameters in one analyzer: total hardness, calcium hardness, total alkalinity, and free alkalinity. Application areas include:

- Raw water intake
- Make up water
- Cooling water conditioning and event monitoring



Meters & Probes

SL1000 Portable Parallel Analyzer

Get highly accurate chloramination results, with less opportunity for errors, in a fraction of the time.

- Up to six parameters in parallel
- Automation, internal temperature control, and self-contained chemicals to avoid manual steps



SL250/SL1000 Portable Parallel Analyzers (PPA)

- Accuracy and repeatability at your fingertips
- Perform your tests faster
- No need to handle chemicals



Chemkeys

Chemkeys are designed for use with the SL250 and SL1000-PPA Portable Parallel Analysers. Use for dramatically streamlined water quality testing.



AT1000 Automatic Titrator

Now anyone in the laboratory can perform Potentiometric Titrations that deliver fast, accurate and reliable results.

- One-touch automation
- Pre-set application packs
- Ready-to-use straight from the box



HQ Meters & Intellical Probes

We offer a range of probes for routine and challenging power applications.

- Intuitive user interface



Chemistries & Reagents

Film Forming Amine Kit

Hach's Film Forming Amines kit allows you to test ODA, OLA and OLDA based film forming amines products using Hach's DR3900 and DR6000 spectrophotometers.





Keep your Hach instruments performing at their best — serviced by the people who know them best

Maintaining your Hach® instruments is essential to ensuring reliable results, operational stability, and compliance with regulatory standards. With regular calibration, preventive maintenance, and validating documentation, you protect your investment and extend the life of your equipment.

At Hach, we’ve trained a trusted network of channel partners across the region to deliver expert service and support. Whether it’s routine maintenance, troubleshooting, or repairs — our certified partners are ready to help.

Need support?

Reach out to us, and we’ll connect you with the right authorized channel partner in your country.

SERVICE ENQUIRIES:

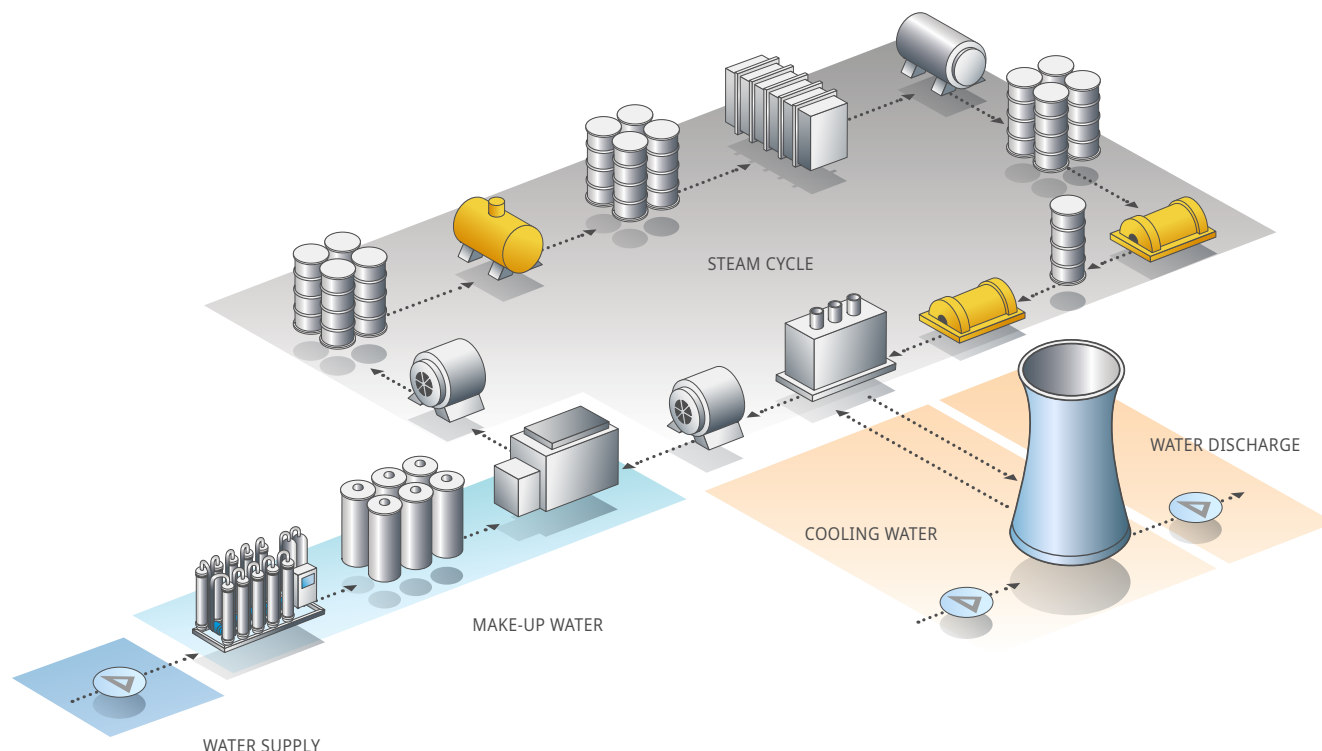
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MOST POPULAR			
	Essential Protection	Premium Protection	Customised Protection
Benefits	• Extend instrument lifetime • Confidence in your results	• Maximum uptime • No unexpected costs • Fully covered repairs	• Maximum uptime • User maintenance • Flexible financing options • Tailored service options
Included in Plan	• Instrument calibration • Preventive maintenance • Automatic alerts • Software updates • Smart monitoring • Proactive support • Wear parts included	• Instrument calibration • Preventive maintenance • Automatic alerts • Software updates • Smart monitoring • Proactive support • Wear parts included • Start up	• Instrument calibration • Preventive maintenance • Automatic alerts • Software updates • Smart monitoring • Proactive support • Wear parts included • Start up
Repairs	• Billable repairs available	• Instrument repairs included • Spare part replacement • Priority repair scheduling	• Instrument repairs included • Spare part replacement • Priority repair scheduling
Customization			• Embedded service experts • Financing options • Tenders • Multi-site service support



Hach Solutions by Parameter

All parameters are available as both process & laboratory solutions.



Water Treatment

Chloride
Chlorine
Chlorine Dioxide
Conductivity/Total Dissolved Solids (TDS)
Dissolved Oxygen
Hardness/Alkalinity
Hydrazine/Oxygen Scavenger
Oxidation-Reduction Potential
Ozone
Microbial Load (ATP)
pH
Silica
Sodium
Total Organic Carbon (TOC)
Turbidity and Suspended Solids

Steam Cycle

Ammonia
Chloride
Conductivity/Total Dissolved Solids (TDS)
Copper
Dissolved Oxygen
Hydrazine/Oxygen Scavenger
Hydrogen
Iron
Oxidation-Reduction Potential
pH
Phosphate
Silica
Sodium
Total Organic Carbon (TOC)

Cooling Water

Chloride
Chlorine/Oxidants
Chlorine Dioxide
Conductivity/Total Dissolved Solids (TDS)
Copper
Hardness/Alkalinity
Microbial Load (ATP)
Microbiology
Molybdate and Other Corrosion Inhibitors
Oxidation-Reduction Potential
pH
Sodium
Total Organic Carbon (TOC)



POWER AND STEAM GENERATION

Interested?

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Be Right™

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In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time.

DOC030.68.10024.May25