Complete Water Analysis Solutions for

Power, Heat & Steam Generation



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The Water Analysis Experts for Power & Steam Generation

With more than 60 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 ambient water to ultrapure. Our breadth of product solutions support all power plants whether fossil or nuclear, as well as cogeneration, and heat and steam production. Influent water treatment Demineralization Make-up water Steam cycle Cooling Water Wastewater

Featured water analysis solutions

Silica / Phosphate

Hach 5500sc Silica or Phosphate Analyser

Avoid downtime with the industry's only pressurised reagent delivery system.

- 90 days of continuous runtime
- Predictive diagnostics / maintenance technology
- Intuitive user interface
- Verify easily with Hach lab products so you don't waste time second-guessing





Sodium

NA5600sc Analyser

Protect the metallurgy in your system and monitor for leaks at sub ppb. Our newest analyser has the same interface as the 5500sc.

- Automatic calibration
- Automatic electrode reactivation
- Optimum response time in a variety of power applications
- Reagent replenishment only every 90 days







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



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Orbisphere Hydrogen TC Sensor

Monitor hydrogen in the power production process.

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

Orbisphere 3100 Portable Optical O₂ Analyser

Mitigate risk with the most rugged portable O_2 analyser 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



Conductivity / pH / Redox/ORP

9523sc Cationic Conductivity Analyser

Calculate accurate pH measurements without interference from contaminants.

• More contaminant-resistant than traditional pH probes

9525sc Degas Cation Conductivity System

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

Couple with Hach 9523sc to create a single, integrated system that measures:

- Specific conductivity (SC)
- Cation conductivity (CC)
- Degassed 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

SC200 Universal Controller

Deploy the most versatile controller on the market.

- Compatible with a broad range of digital and analog sensors
- Communication module-ready
- Advanced features for ease of use

8362 pH or Redox/ORP Sensor for High Purity Water

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

• Self-pressurising electrode









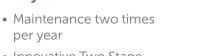


Total Organic Carbon (TOC)

QBD1200 Laboratory TOC Analyser

- One 90-minute calibration per year
- Low total cost of ownership
- 95% less carryover

BioTector B3500c TOC Analyser



 Innovative Two Stage Advanced Oxidation Technology

per year

FP360sc Oil in Water Sensor

- Continuous online monitoring
- Low maintenance
- Easy to clean

Disinfection

CL17 Colorimetric Chlorine Analyser

Take control of challenging water treatment processes with an analyser that resists changes in water quality and demand.



- 15-minute maintenance monthly
- Fewer operator interventions and no special tools
- Reagent-free solutions for chlorine, chlorine dioxide and ozone measurements are also available.

Turbidity & Corrosion Monitoring

TU5 Series Lab and Online Turbidimeters

An innovative optical design delivers the best low-level precision and sensitivity.

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

LT200 Reactor Heating Block

Combine LT200 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

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









Meters & Probes

SL1000 Portable Parallel Analyser

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



HQD Meters & Intellical Probes

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



• Intuitive user interface

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

Steam & Water Analysis Systems

SWAS Panel

On-line monitoring for heat and power plants has never been simpler.

- Customisable to your exact application via a standardised process
- Arrives preassembled and ready to use in a self-standing rack

Products on this page may not be available in all countries. Please check with your local sales representative for more information.



Service & Support



Online Support

Hach Support Online (HSO) pools more than 85 years of water analysis knowledge into a powerful global community. Flowing directly into our customer and technical support teams, this dynamic resource delivers real-time answers, user-friendly search tools, multiple types of content, and easy ways to connect with Hach experts. With HSO, you get the information you need and together, we can power progress for people around the world.



Technical Training

Hach Training Center provides relevant, hands-on training to your team, giving them the experience they need to master various theories and techniques – and produce results you can trust for quality assurance, environmental safety, and regulatory compliance. Hach experts offer a large course catalog of workshop training, personalised training, and digital learning designed to increase proficiency and confidence for plant operators, instrument and field technicians, laboratory personnel, and plant managers and superintendents.

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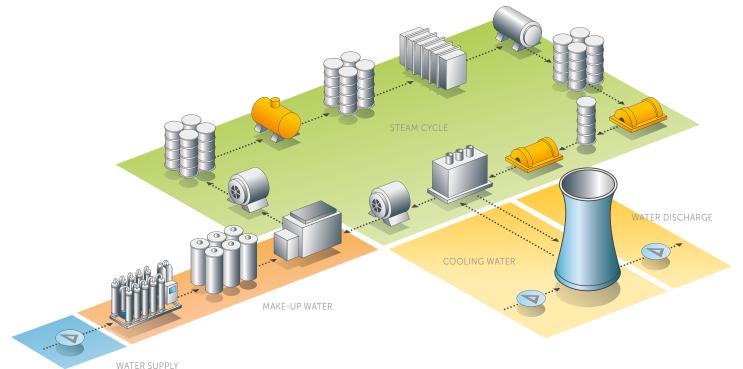
Service

Hach ServicePlus Programs have been developed to help solve your maintenance and support problems. Whether it's a lack of resources or skills, an instrument that is down, compliance concerns or the need for a predictable budget, we have programs to fit the unique challenges you face in your organisation.



Hach Solutions by Parameter

All parameters are available as both process & laboratory solutions.



Water Treatment

Chlorine Chlorine Dioxide Conductivity/Total Dissolved Solids (TDS) Dissolved Oxygen Hardness/Alkalinity Hydrazine/Oxygen Scavenger Oxidation-Reduction Potential Ozone pH Silica Sodium Total Organic Carbon (TOC)

Steam Cycle

Ammonia Chloride Conductivity/Total Dissolved Solids (TDS) Copper Dissolved Oxygen Hydrogen 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 Microbiology Molybdate and Other Corrosion Inhibitors Oxidation-Reduction Potential Ozone pH Sodium Total Organic Carbon (TOC)

