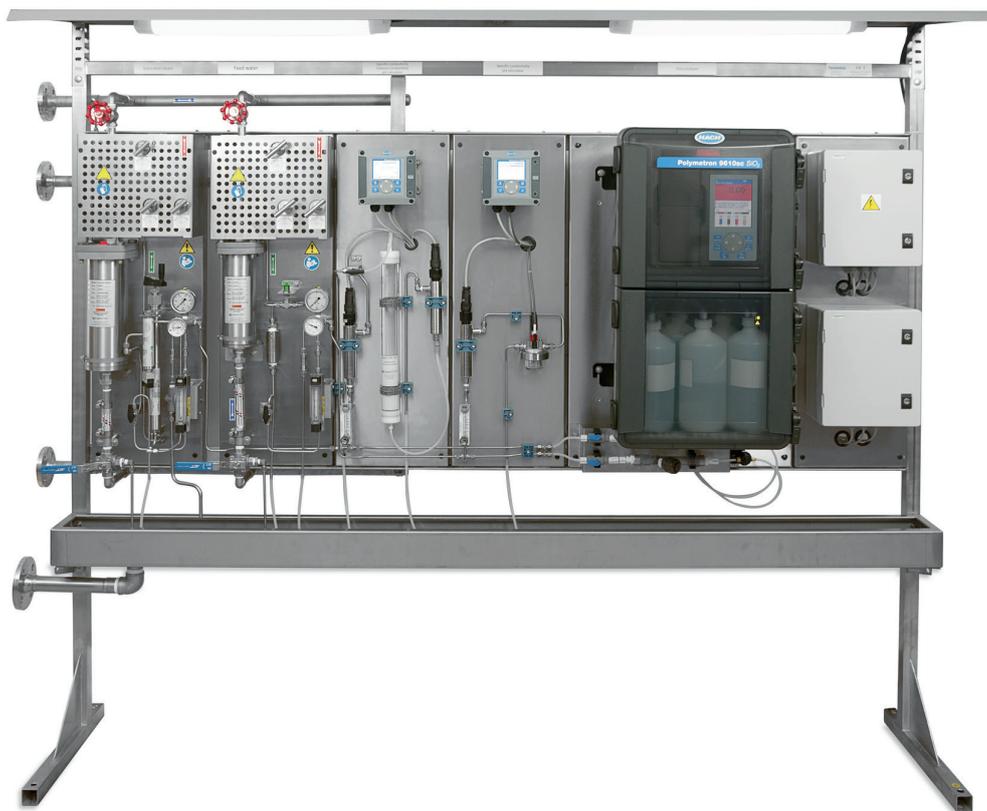


SWAS Panel

Applications

- Power
- Steam systems
- Cogeneration



Simple to install. Safe to operate.

Hach®'s Steam and Water Analysis System (SWAS) measures degassed cation conductivity, silica, and sodium, and helps to protect and reduce the downtime of your plant. This comprehensive approach also includes a steam reduction unit as well as preinstalled hydraulic and electrical connections for standard fittings and electrical I/O signals.

Reliable Measurements

A new way of water quality monitoring saves you critical time and effort. Less process downtime due to reliable results delivered by Hach's 8310 conductivity sensor, 5500 sc silica analyser, 9240 sodium analyser, and Polymetron 9500 controller.

Complete Solution

Everything from one single source: pre-configured panel, service, digital learning modules, in-house chemical production, and quality control. The single platform minimises time required to teach and learn product operations, getting new systems in use faster.

Easy and Safe Operation

The SWAS panel system is easy to install and requires only low annual maintenance time. Safe operation through shut-off valves for hot samples, safety valves for cooling water, protection screen for hot parts, and certified pressure tests.

Compact Assembly of Panels and Analysers

Sampling and analysers are mounted on a size-optimised single panel. The efficient cooler design ensures the need of less cooling water and a wide sample pressure and temperature range.

Technical Data*

Sample conditions

Sample pressure	< 345 bar
Sample temperature	540 °C maximum
Flow rate	200 mL/min for degassed cation conductivity 150 mL/min for 5500 sc silica analyser 90 mL/min for 9240 sodium analyser Plus 350 mL/min for grab sample

Cooling water conditions

Water after treatment (at least decarbonised water of after filter quality)

Pressure range	3 - 6 bar
Temperature	Up to 40 °C (pressure drop downstream of cooler: 0.3 - 0.7 bar)
Turbidity	< 50 NTU
pH range	7 - 12 pH
Conductivity	< 100 µS/cm
Permissible Chloride range	< 250 mg/L for sample temperature 25 - 180 °C < 100 mg/L for sample temperature 180 - 290 °C < 25 mg/L for sample temperature 290 - 550 °C For higher concentrations Inconel coolers have to be used.

*Subject to change without notice.

Order Information

Panel

LYP105.99.01001 SWAS Panel, 2 Parameters

Includes: 08310=A=0000 conductivity sensor, 5500.KTO.S0.A2E 5500 sc silica analyser, 9500.99.00604 Polymetron 9500 controller, 3-way low pressure flush valve HAM-LET, cooler FLR6225 (0.2-2.7 m³/h) + safety valve (10 bar), TSV thermal shut-off valve (latching), total flow indicator, BPRV back pressure regulating valve, panel SS 304

LYP105.99.01002 SWAS Panel, 3 Parameters

Includes: 08310=A=0000 conductivity sensor, 5500.KTO.S0.A2E 5500 sc silica analyser, 09240=A=0002 9240 sodium analyser, 9500.99.00604 Polymetron 9500 controller, 3-way low pressure flush valve HAM-LET, cooler FLR6225 (0.2-2.7 m³/h) + safety valve (10 bar), TSV thermal shut-off valve (latching), total flow indicator, BPRV back pressure regulating valve, panel SS 304

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.