



AQUANet Features and Benefits

- Keeps boilers scale and corrosion free
- Lower operating costs
- Ensures correct chemical levels at all times
- Reduced man hours in system operation and tests
- Easily reconfigured for new chemical suppliers (customer choice)

Designed for steam boiler installations, the **AQUANet** control system accurately monitors the Oxygen content, pH & Conductivity of each boiler (maximum 3), the feed water and returned condensate. Based on the results it injects exactly the required amount of chemicals and provides each individual boiler, temperature compensated, surface blowdown (TDS) control. It keeps the entire plant within the desired chemical limits, 24 hours a day, irrespective of boiler load sharing or fluctuating steam demand.

The units can be fitted with a mixture of pumps, programmed for different pressure boilers and water treatment chemicals.

The system includes pH, conductivity, dissolved oxygen and temperature probes, a data comm.-unit with software, feed flow meters, automatic blowdown valves, test kit and dosing pumps c/w suction assemblies with low level alarm.

The software provides for continuous display of all important readings and pre-formatted Management Reports provide a summary of average readings for any period requested. The unit can be linked to other **AQUANet** systems and all readings are displayed on one monitor.

The system is pre-configured for each installation and a choice of coolers, pumps, flow meters and blow down valves are available depending on boilerhouse requirements.

Installation can be carried out by the owner's staff, sub-contractors or AQUANET personnel.

<p>Specifications</p> <p>Dimensions (W) x (H) x (D) mm 1240 x 2100 x 460 (assembled c/w chemical drums)</p> <p>The instrumentation is housed in a split steel cabinet with hinged lockable doors</p> <p>The left hand section constructed of stainless steel, houses the sampling system and probes</p> <p>The right hand section houses signal conditioning, control and the communications interface</p>	<p>Probes</p> <p>pH : Range 0 - 14pH Automatic temperature compensation, Sealed Reference cell, Resolution 0.5% FSD</p> <p>Conductivity : Range 0-400uMhos (other ranges available) Automatic temperature compensation, Resolution 0.5% FSD</p> <p>Dissolved Oxygen: Range 0- 2.5 mg/l, Automatic temperature compensation, Resolution 0.5% FSD</p> <p>Feed Temperature: RTD PT100 3-wire 0-110°C temperature probe with stainless steel pocket & 4-20ma retransmission</p>	<p>Flowmeters</p> <p>Mechanical to suit pipe work. OR Ultrasonic Flow Meters (Non-penetrating). Clamps onto outside of existing pipe work. Transducer maximum operating temperature 200°C</p> <p>Blowdown Valves</p> <p>Mechanically operated to 32 bar Or Pneumatic, Rated 100 bar to suit application</p> <p>Chemical dosing pumps</p> <p>Air operated 2.1 litre/hr max 500 bar (max) Electrically operated stainless steel diaphragm pump 1 litre/hr. up to 16 bar (max)</p>
<p>Additional standard features: Flushing water system with flow monitoring. Dosing pump manual speed control. Dosing pump vent system, returns chemical to drum (No spillage) Fuse failure alarms. Auto probe calibration on the unit</p>		