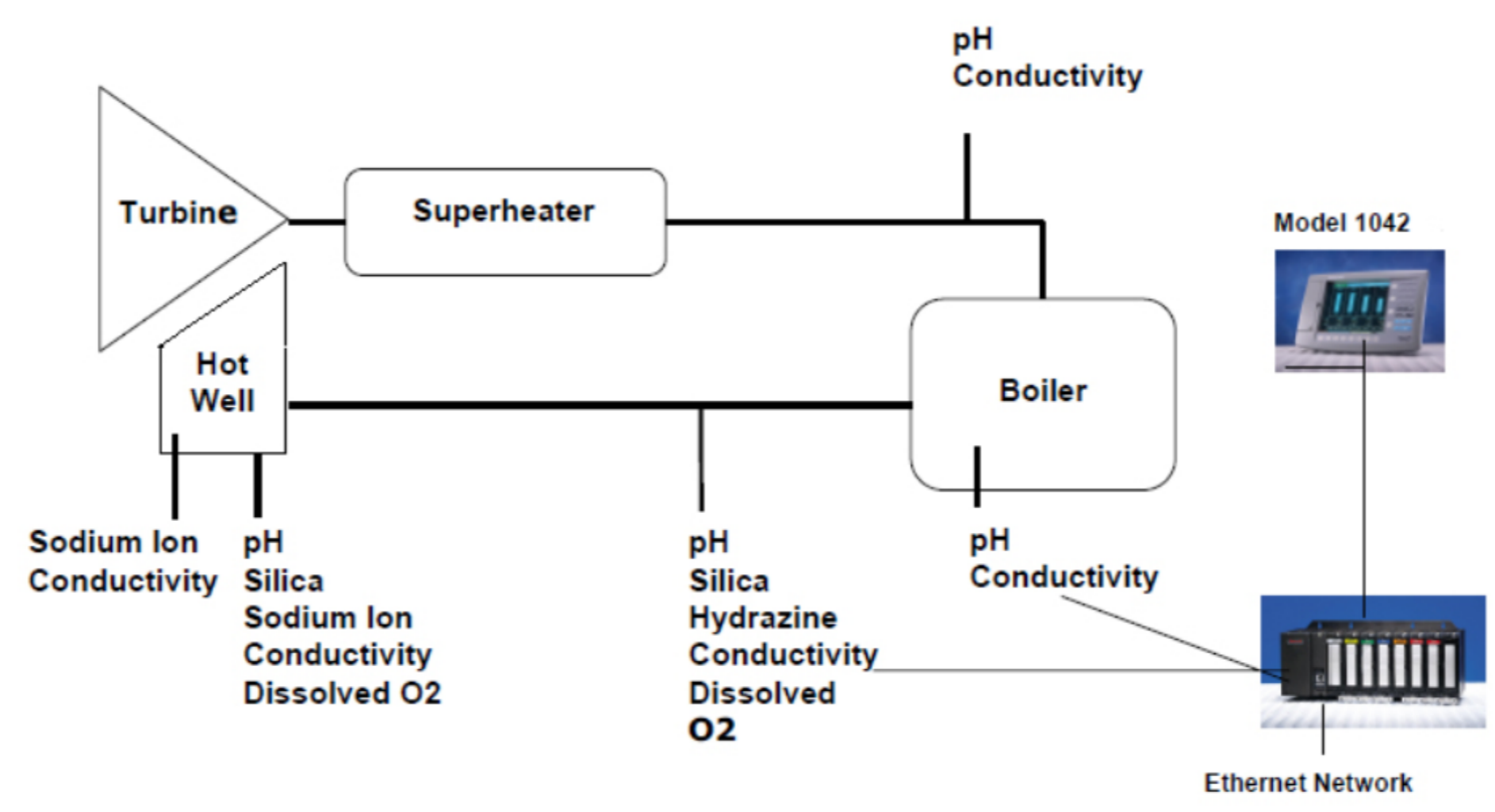


Solution Note



Problem

Water quality and steam purity are important considerations for ensuring availability and reliability of power generation components. Turbine blades, discs, boiler tubes, condensers, feedwater heaters, and condensers can experience corrosion and scaling problems if boiler water chemistry is not properly controlled and monitored.

Recognition of the cost savings available from improved water chemistry management has lead to increasingly stringent standards for water quality measurement and control.

Measurements are taken at numerous sample points throughout the water/steam cycle. Typical measured variables include pH, conductivity, dissolved oxygen, silica, hydrazine, and sodium ion. The measurements must be continuous and provide timely alarms so that corrective actions can be taken to maintain water quality.

The HC900 Solution

The HC900 Controller offers an ideal solution to meet the total needs for water quality management. The HC900 accepts inputs from online analyzers and combines them with manual entries such as grab sample analyses to allow easy and automatic integration of all parameters required for water quality management.

The HC900 integrates continuously variable control functions with the discrete functions to manipulate any variety of final control elements required for water chemistry management.

The standard logic capability of each HC900 can be used to enhance alarm strategies to include startup/shutdown and special circumstances.