AQUANET

Specialist Instrumentation & Software Engineers for Automated Water Quality Control

AQUANET-PRO SOFTWARE FOR WINDOWS

AQUANET software for windows is the next generation of specialty software and has been written to meet with the current demands of utility water management. The program can be used on a suitable existing PC or network.

The software can display and manage multiple **AQUANET** systems, such as boilers, cooling water, salinometers etc.

A typical **AQUANET** screen is a mimic drawing of the installations component parts e.g. Feed tank, boiler, blowdown valves, flow meters, etc. The software displays the current values being measured typically water pH, conductivity and dissolved oxygen, flow rates, input and output status.

This software accesses the serial com ports COM1 and COM2 of the PC to communicate with standard **AQUANET** water management units such as:

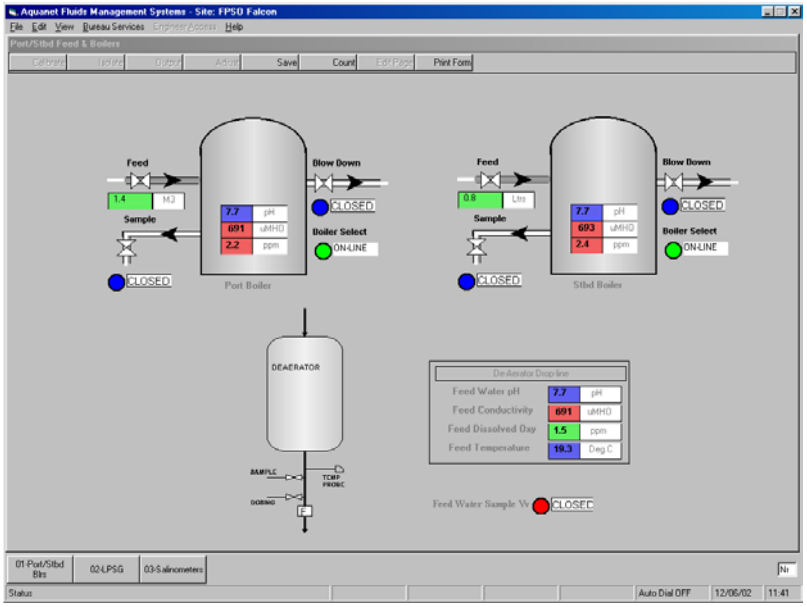
- Boiler Water Management Systems such as AQ300
- Cooling Water Management Systems such as AQ655
- Salinometer systems such AQ500
- Chlorination and pH control systems such as AQ100

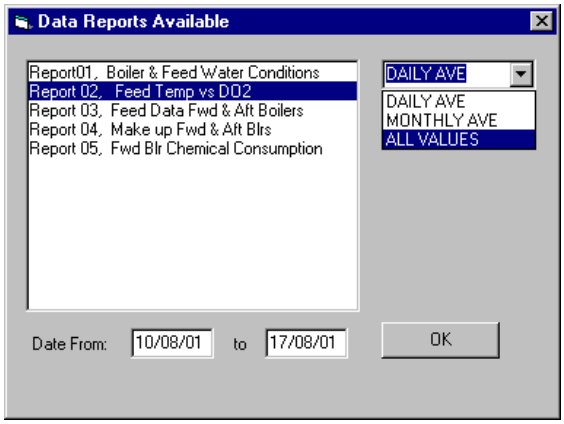
AQUANET is a standard Windows application and uses a Microsoft Access Database for the configuration and storage of logged data.

AQUANET provides optional support for Profibus by providing a PC plug in card which makes the PC running **AQUANET** software appear as a Profibus DP slave to a Profibus System Master.

Hardware requirements:
The minimum hardware requirements, for which this software is designed, are IBM compatible PC, comprising:

- 1.8 GHz processor speed,
- 512 Mbytes Ram,
- 100 Gigabyte Hard disk,
- CD Rewriter,
- Floppy disk drive
- USB ports , Local Serial ports Com1: and Com2:,
- Keyboard and mouse.
- Monitor resolution 1024 x 768
- Windows XP Operating system with service pack 2 or greater.





Features

- Communicates with **AQUANET** local control units, across a LAN or telephone network.
- Displays current values limits, status and alarms.
- Saves values to an Access Database.
- Detects alarm conditions.
- Automatically logs data and produces graphs and reports.
- Allows engineering configurations, even on remote sites.

GENERAL DESCRIPTION

Central to **AQUANET** is a data base, comprising a list of sites. Each site contains a list of units and each unit has a list of channels.

The following channels are allowed.

- Analogue Channel: varying voltages from probes such as pH, Conductivity, DO2 etc.
- Count channels: Pulses, from Flow meters etc.
- Discrete Channels: Low level switches, contact closure etc.
- Outputs: Relay activation, pulse trains to dosing pumps etc.

AQUANET software is a “poll – response” each outstation card has a unique site address, the software sends an interrogation query to a particular address, the receiving card recognises its address and responds with the current data. All communications are in ASCII and each message has a CRC checksum attached.

AQUANET units are sited on a local communications loop or on a modem over the telephone network.

When **AQUANET** requires communications with a unit it will either poll on the local Comm port or dial up the unit on the telephone network.

In the event of a communications break the local **AQUANET** unit will continue to perform its programmed task without reference to the communications loop and **AQUANET** software.