

Soil Moisture & Control

THE KEY to Crop Quality and Profitability



WiSA

Irrigation Solutions

***Designing and Manufacturing
Technology for Water Use Efficiency***

Total Irrigation Management and Control from Your PC

The **WiSA** Irrigation Management System captures soil moisture, sensors, and weather data to enable precise control of irrigation and nutrient applications.

Any sensor can be read and used to initiate action.

For example, soil moisture sensors can be used to start and stop irrigation. Weather sensors can be used to actuate frost protection and the system can provide alerts when weather conditions are conducive to disease outbreaks.



Use technology to your advantage

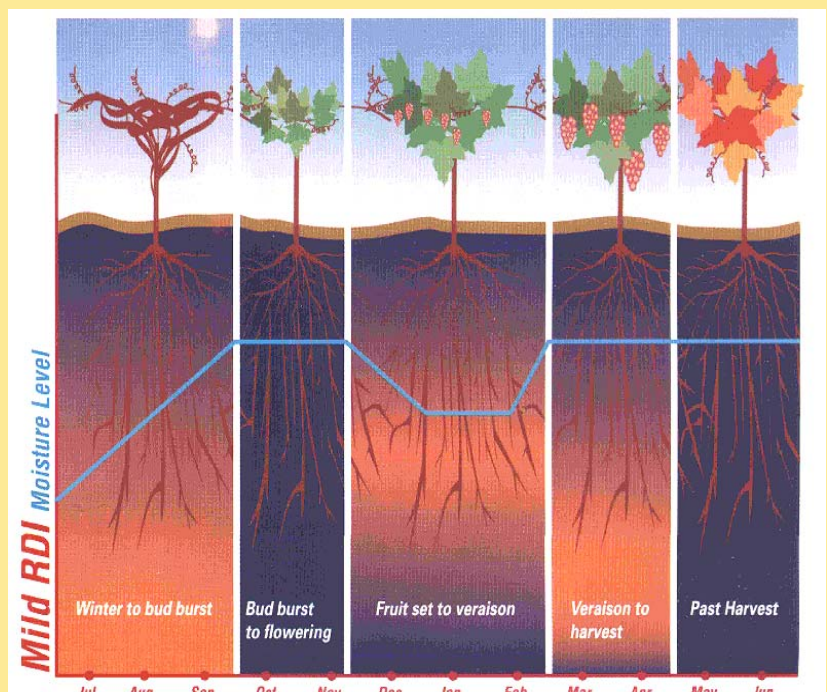
Using the power of your computer makes sense. Simple Interfaces link your PC to the system:

- ♣ Control valves as a group or individually;
- ♣ Each valve can have its own run time;
- ♣ Run intervals can be matched to crop water use;
- ♣ Any sensor can start and shut down the system.

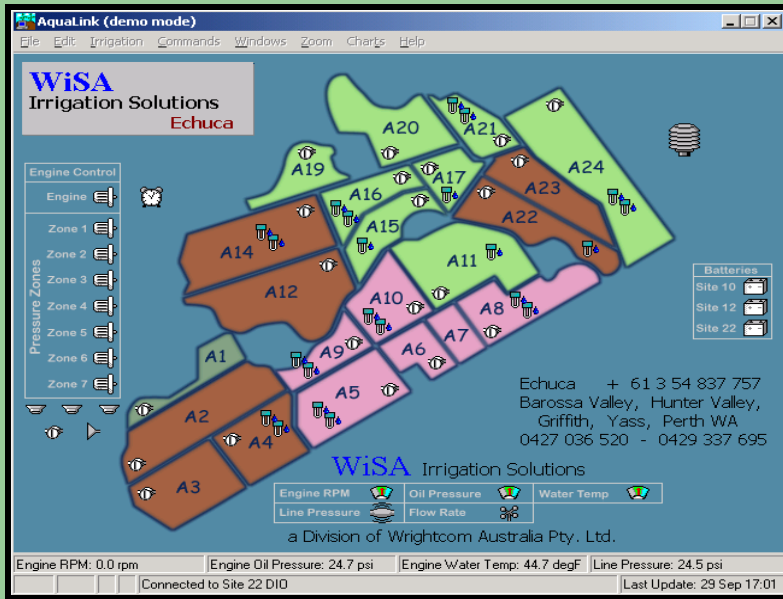
Moisture control for crop quality

All plants (particularly grapes and many fruits) produce better quality if water and nutrient availability is managed to encourage root growth, or divert vegetative growth into fruiting, at key points over the growing season.

The **WiSA** System allows effective application of the required horticultural practices by application of the right amounts of water and nutrients at the right time.



Manage and Control Irrigation from Your PC



Property Overview

A map of your property is displayed on the PC screen showing various irrigation zones with icons representing key components such as probes, sensors, valves, pumps etc.

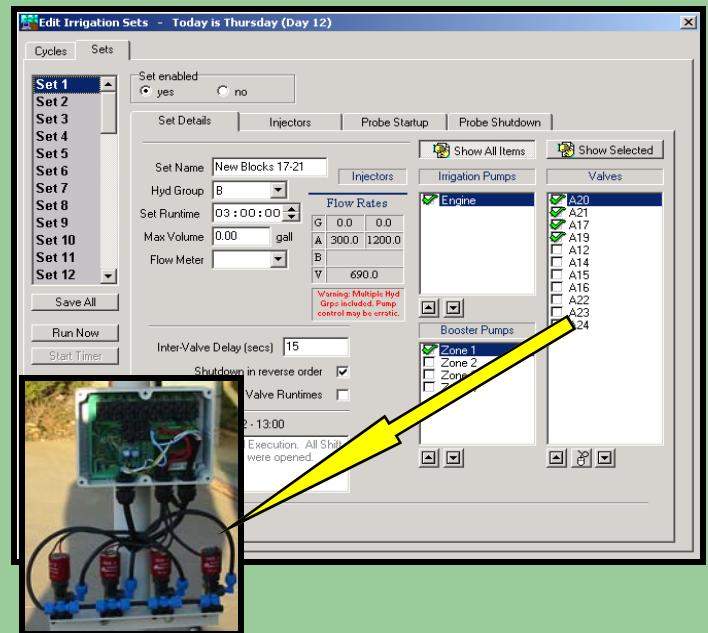
A single mouse click on the appropriate icon will instantly display data records and current status. Different components such as pumps and valves can be quickly and easily activated.

Irrigation Control Management

Any combination of pumps and valves can be linked at the click of a button and calculated flow rates are checked and displayed.

Shifts can be run on a timer basis with very flexible start and stop times, or on soil moisture and weather sensors inputs to start and stop.

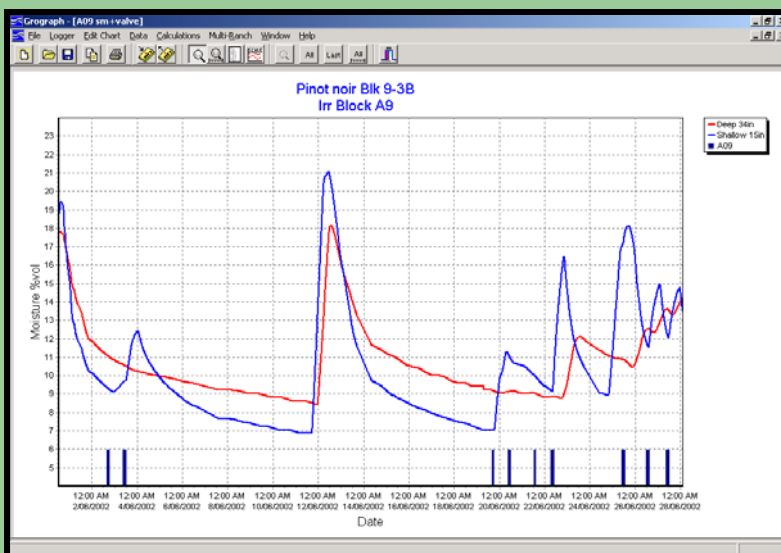
The program provides for automatic pump and valve control based on calculated flow rates. Filters, injectors and mixing bins can also be controlled. Filtration can be activated on a timed basis or via a pressure differential switch.



Irrigation Analysis and Scheduling

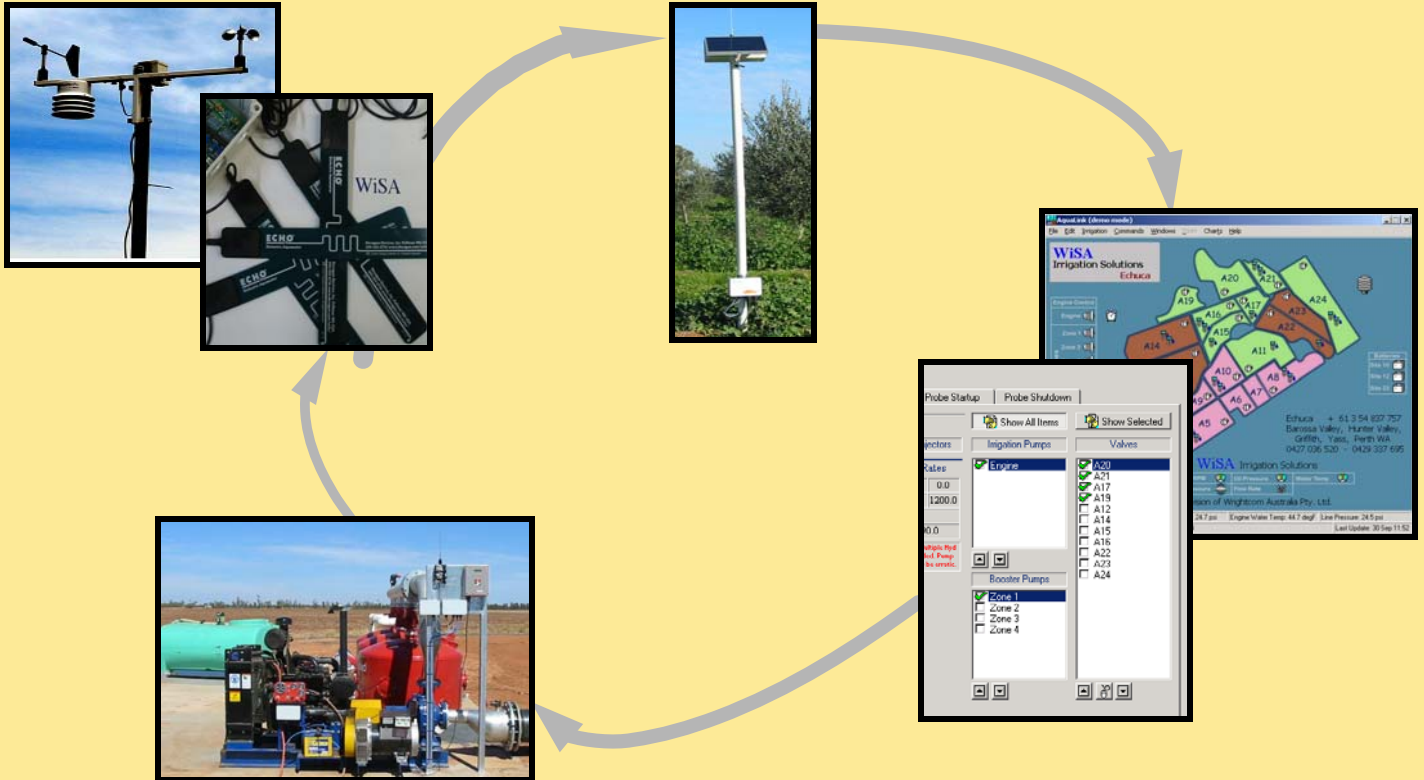
The software has the capability to collect, log and analyse sensor information and respond immediately with alarms or by initiating action; for example, during periods of drying wind a rapid irrigation cycle can be initiated.

Graphs allow the manager to clearly see the upper and lower moisture limits, assess trends in crop water use and manage for maximum productivity.



How it Works

Field sensors send information to the PC, which then sends commands to pumps, valves, heating, cooling, lighting, filters etc. The Irrigation Management system can start and stop irrigations from the soil moisture data parameters, set within the very intelligent **Aqualink** software.



THE **WiSA** ADVANTAGE

The system can be built up in stages. Starting from a few soil moisture sensors and a hand held reader you can develop the system to use Radio telemetry and the entire operation is monitored and controlled from your PC.

Other System Features:

- ♣ Accurate
- ♣ Low cost soil moisture probes
- ♣ Local back-up
- ♣ Robust and durable
- ♣ Simple and quick to install and use
- ♣ User friendly with – Aquaflex – Echo – Sentek Environscan SDI 12 probes
- ♣ Mobile telephone system management for Irrigation and security in park lands & sports grounds for Municipalities, mining and Pivot control
- ♣ All soil Monitoring, flow, pressures, weather data & control in one package

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