AQUAMONIX

Measure. Monitor. Master.

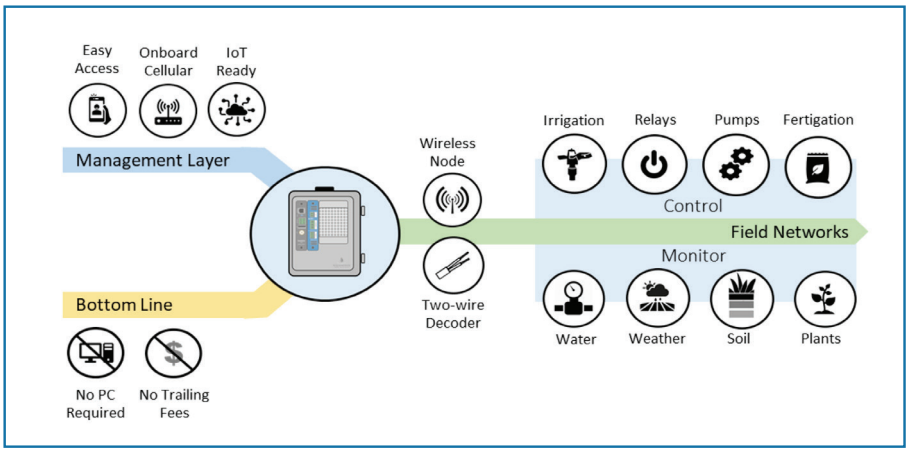
HYBRID CONTROL AND MONITORING SYSTEM




HYBRID AG INTERNET CONTROLLER

Introducing the HYBRID AG Control and Monitoring System. Monitor and Control irrigation systems, pumps, storage, filters, fertigation and other critical infrastructure with ease.

The HYBRID AG combines the powerful and proven technology that has made the RainMAN control system the first choice of professional irrigation managers for more than twenty five years. It combines rugged field proven hardware with the ease of a web based remote management platform that you can log into anywhere, anytime, or via our handy mobile app.



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IRRIGATION AUTOMATION
WATER MANAGEMENT
REMOTE MONITORING

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FEATURES

No Computer Required

The HYBRID AG's onboard web server allows users to access the system via a simple web browser, removing the need for a dedicated computer.

Import and Export Data

The HYBRID AG displays historic alarms, the current status for each watering station, and can send these via SMS or email. External data such as weather can easily be imported into the system.

Onboard Cellular Modem

The HYBRID AG on-board modem enables web connection anywhere there is a cellular signal. Other connection methods are also available.

Internet of Things Ready

If enabled, the HYBRID AG connects the Internet of Things via an onboard LoRaWAN Gateway (a wireless hub) that collects simple data to be used by the controller exported to a third party dashboard.

Input Based Management

The HYBRID AG features on-board scheduling software that can interact with a range of site based or remote environmental inputs such as water flow, pressure, weather, and soil data.

Solar or AC powered

The HYBRID AG can work with AC or solar power sources. The available power supply will determine the available control methods. (Solar can be used for DC Latching or Wireless Systems).

2-Wire Decoder Networks

The AGRtonick 2-wire Decoder system connects to a large number of actuators and read a large number of sensors on the 2-wire path. It can also operate in conjunction with the RainWAN wireless system.

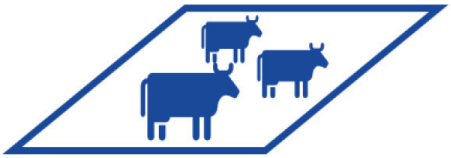
Wireless IoT Networks

The RainWAN LoRa Wireless network connects to a large number of actuators and can read a large numbers of sensors. It can also operate in conjunction with the AGRItonick 2-wire system.

SIMPLE TO USE SOFTWARE

Remote Monitoring

The Hybrid AG Monitoring platform offers you choice, you are not locked into using specific sensors or networks, and we have the expertise and experience to design a system around your specific needs.

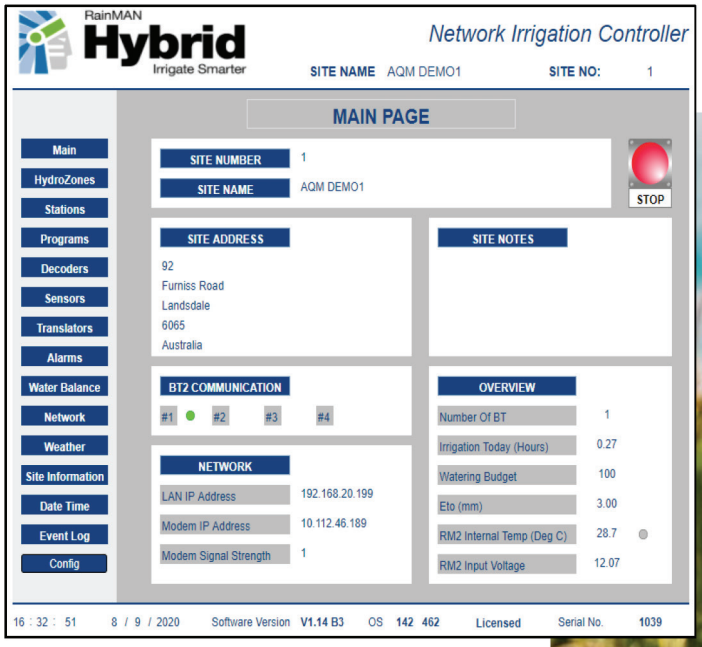


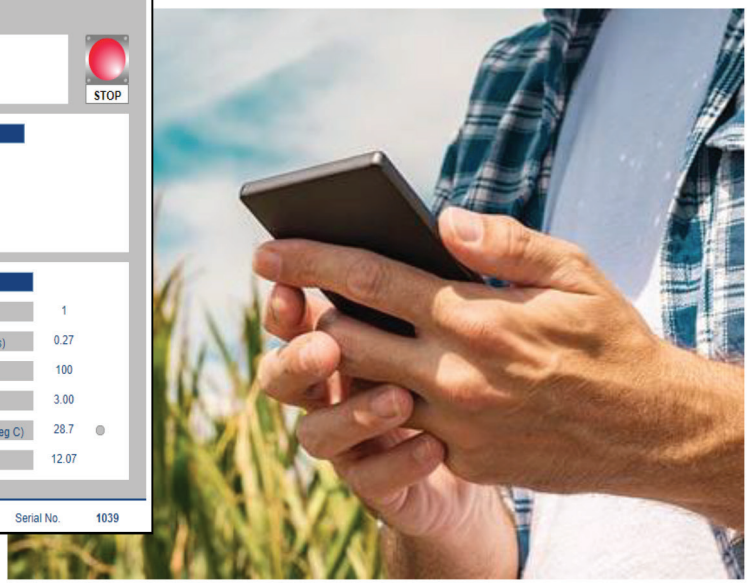
Flood Bay Automation

Easy to use and written for flood bay irrigation, the software's time-based scheduling learns actual run times via the RainWAN Get Wet technology and applies the new schedule to the remaining valves in the program.

Drip or Sprinkler Irrigation

Simple and easy to use, it features water balance algorithms with Hydrozone calculator for automatic adjustment of watering times, flow, pressure and moisture monitoring and provision for fertigation.





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AGRITONICK 2-WIRE DECODER SYSTEM

AGRItonick is a decoder-based system that works with most brands of valves or any relay driven device. It can read a large range of sensors, all connected to a buried wire path.

Safe and Secure

The field network is built on a single pair of wires buried safely underground, resistant to machinery damage, theft, and vandalism.

Versatile

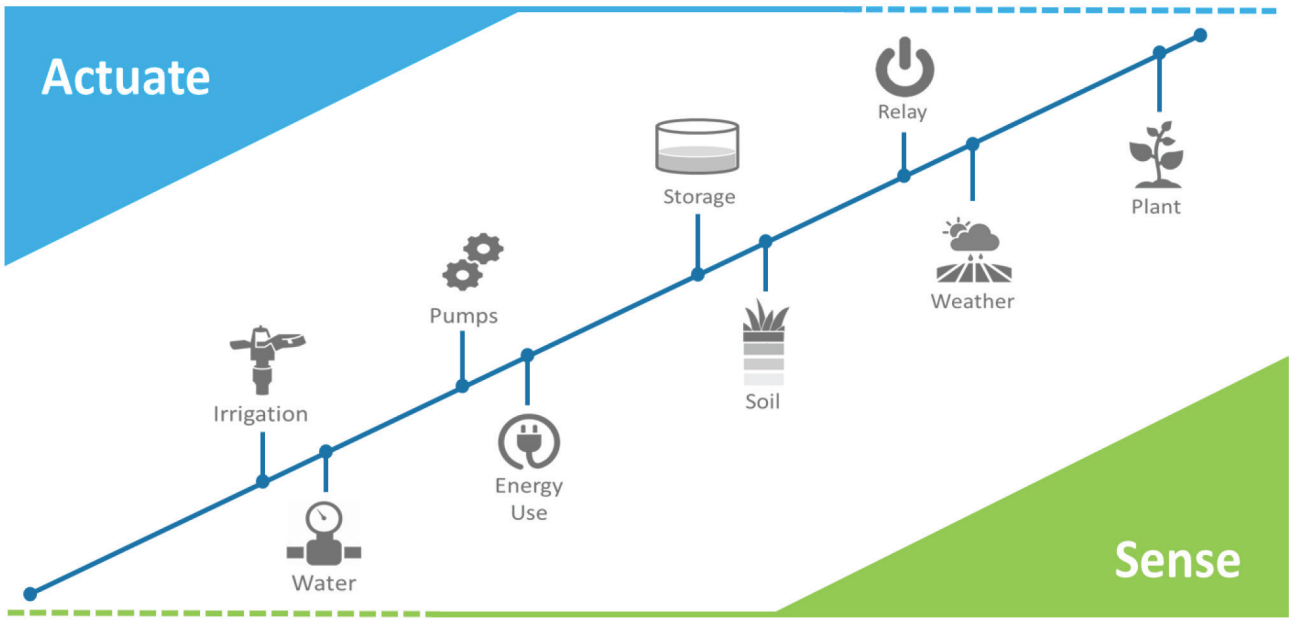
Actuate, multiple, switchable devices for advanced control and sample data from a wide range of sensors via the same pair of wires.

Easy Expansion

Simply cut in actuators or sensors anywhere there is a 2-wire cable installed or add additional 2-wire paths onto existing installed systems.

Low Maintenance

There are no antenna, battery or solar panels failures. Decoders are rugged and long lasting and designed to work in the harshest of environments.



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LOCAL WIRELESS IOT NETWORK

IRRIGATION AUTOMATION

The Hybrid Ag can be easily used to establish a bidirectional localised wide area network that uses encryption to ensure secure communications to large numbers of field devices. It's suitable for actuating valves, pumps and other equipment, as well as reading a wide range of sensors, all via the RainWAN Node.

Easy to install

Field networks are based on RainWAN nodes that can actuate valves or relays and read switches and sensors, available with solar and bird proof enclosures.

Versatile

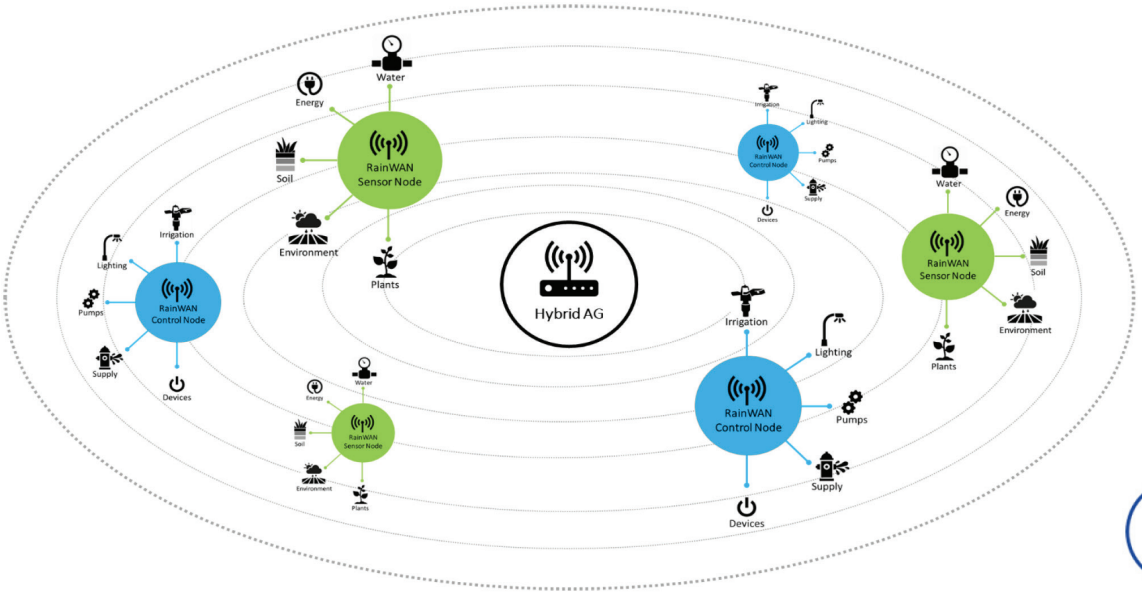
Sense and actuate over the same network, advanced control, and data sampling from a range of sensors via addressable nodes.

Easy Expansion

Simply add in more nodes anywhere there is connectivity or add additional gateways into existing installed systems for extra capacity.

Long Range

Tested to provide a secure, stable and reliable connectivity with a range of more than 8km (5 Mi), line of sight, dependent on the height of the antenna used.



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METERS, CONTROL VALVES AND SENSORS

The system can operate and interface with a wide range of sensors, meters, and valves. These include:

Actuated Butterfly Valves

Our range of actuated butterfly valves are durable and ideal for bay automation or flow regulating purposes. Insert style and available in sizes from DN25 through to DN900, and in a tough PVC or CI/SS construction suitable for a range of applications.

Hydraulic Control Valves

Available in tough GRP, PVC or Epoxy coated metal, our range of control valves are ideal for most control applications and can be configured with a range of pilots for specific duties. Available threaded, slip (solvent weld) or flanged in ranges from DN25 through to DN250.

Electromagnetic Flow Meters

Accurate and reliable, our Magflo meters are ideal where a meter is required for compliance purposes. Available in compact or remote configurations, in ranges from DN40 through to DN900.

Pressure Transducers and Switches

Reliable and accurate, our IP67 rated pressure transducers can be used in a range of environments. They are available in a wide array of pressure ranges.

Soil Probes

Available as single point or multi point profiling probes, able to measure temperature, moisture and salinity.