GROUP OVERVIEW

Measure Monitor Master

envirada

Measure Monitor Master

Envirada is dedicated to minimising environmental impacts for growers, governments and corporates, while also improving industry productivity and community resources. We do this using our market leading hardware and technology platforms to engage directly with local customers and globally via our channel partner network.

Through our smart, intelligent, end to end solutions, Envirada provides the hardware, monitoring, connectivity and smarts that enable effective water management and environmental stewardship.

WE ARE LEADERS IN | water technology environmental technology connectivity technology

ENVIRADA INDUSTRY LEADING BRANDS

Water	Environmental	Connectivity
AQUAMONIX EMFLUX	AQUAMONIX SOLUTIONS	ELPRO Technologies
electrical systems engineering	SENTINEL	Padman Automation
pump engineers		
RainMAN Innovative Irrigation Management		
TonickWatering		
UPTON AGRICULTURAL TECHNOLOGY		
IRRISMART		

ENVIRADA TECHNOLOGY PLATFORM

envirada labs ⊕ envault

Water brands

![Aquamonix EMFLUX logo]

50 years still flowing

Aquamonix EMFLUX is an Australian based manufacturer of flow metering technologies, including magnetic flow meters for municipal, industrial and agricultural water monitoring applications. We are Australia's leading manufacturer of flow meters for remote irrigation flow metering, with over 50 years continuous track record of product development and an installed base of more than 40,000 sites. Our pattern approved flow meters are designed and built in Australia in sizes from 50mm to 1500mm and flow rates up to 5000 l/s. Our recently

introduced Aqualink and Aquastore product lines enhance the monitoring and automated collection of data from remote sites. We work closely with industry regulators, asset owners and landholders to develop robust and reliable metering solutions backed by local engineering and field support services. We assist governments, industry and the community to better understand and manage their activities on critical surface and groundwater resources and fulfil their environmental reporting obligations.

![electrical systems engineering logo]

Automation, pumping, control solutions

As automation professionals Electrical Systems Engineering (ESE) specialises in pumping and control systems. Our products and solutions are used in applications that require process automation for industrial, mining and irrigation water management projects. We provide smart hardware and software packages for offshore, agricultural, manufacturing, water treatment and renewable energy markets throughout Australia.

Electrical Systems Engineering helps businesses use their resources more efficiently, contributing to a cleaner environment. Our engineers, electricians and technicians conceptualise, design, construct and commission complete control packages to suit production or supply requirements. We specialise in programmable logic controllers (PLCs) and human machine interfaces (HMIs) to increase output and efficiency and decrease costs, without compromising quality and industry safety requirements – leading to better environmental outcomes.

pump engineers

Sustainable pumping solutions

Pump Engineers is long established premium supplier of pumping equipment across many industries, including food & beverage, water utilities, commercial building services, irrigation, mining, and chemical process industries. Through our sales and service activities, Pump Engineers endeavour to provide the most effective, smart and energy efficient solution for any pump requirement.

This is achieved by partnering with local and international brands that share the same values of intelligent and sustainable pump solutions.

RainMAN
Innovative Irrigation Management

Innovative irrigation management

RainMan is a central control platform designed and developed in Australia to suit the demanding requirements for reliable monitoring and management of remote sensors and infrastructure assets. It is a powerful Supervisory Control and Data Acquisition software (SCADA) based solution that has been improving water control and management in Australia for over 30 years. RainMAN systems are flexible and fully configurable to meet project applications across municipal and smart cities, agricultural water management and environmental monitoring and control.

Capable of integrating with the full range of flowmeters, sensors and pumps offered across the Envirada group of companies, RainMAN is the complete environmental monitoring and control solution. Controllers are stand alone, or networked to the RainMAN central control platform, allowing freedom and efficiency in the remote management of assets.

Water brands

TonickWatering

Smart water control systems

Tonick Watering is a global innovator and manufacturer of smart irrigation management solutions, specializing in 2-wire and wireless control technology. Our offering also extends to OEM components for control system manufacturers, who need reliable decoders, and companies upgrading from multi-wire into 2-wire irrigation systems. Tonick Watering has a strong international footprint in mega scale smart cities, sports turf and agriculture projects across the USA, Europe, UAE, Middle East and Australia.

UPTON
AGRICULTURAL TECHNOLOGY

Saving Aussie farmers water and money since 1944

Upton Agricultural Technology is Australia's leading manufacturer of irrigation machines and agricultural water management solutions. We design, build and install a wide range of centre pivot and linear move mechanised irrigation systems. Upton Agricultural Technology invests in continual research and development to ensure our customers remain at the forefront of agricultural irrigation technologies. We are dedicated to bringing customers the highest quality, Australian made, intelligent products and solutions in the market that enable increased yields, efficiencies, reduced power and other operating costs and better environmental outcomes when it comes to water and power usage.

Upton specialise in full turnkey irrigation installations comprising a total package of pumps, pipelines, irrigators, automation and an integrated cloud based agronomy packages to assist farmer's decisions of when, and how, to apply water to crops.

IRRISMART

Take full control of your irrigation

Irrismart specialises in irrigation control and monitoring. Its expertise comes from a longstanding passion and understanding of the irrigation industry and the challenges it faces. Irrismart has the technology and support to make the most of every drop of water, ensuring it is used as efficiently as possible. With a dedicated, experienced team, Irrismart goes above and beyond to make water usage smarter. With a focus on integrating smart controllers and communication to irrigation systems Irrismart allows users to have full control of their irrigation.

Environmental brands

Aquamonix Solutions

aqxsolutions.com.au

Your smart monitoring partner

Aquamonix Solutions is a leading provider of innovative environmental monitoring and control solutions, delivering engineered and trusted systems across four core disciplines: environmental, disaster, infrastructure and data. We design, build and support environmental monitoring networks, providing robust, low powered, cost effective solutions to meet a wide range of exacting requirements. With over 10,000 remote deployments over 25 years – we have environmental monitoring covered. From real time critical early flood warning systems to long term environmental compliance networks, our focus is on understanding customer needs to deliver service reliability, crafting bespoke solutions from concept design through to data driven control and response actions.

SENTINEL

sentinelpl.com.au

Remote monitoring solutions

Sentinel is a specialist environmental consulting group focused on the design, implementation and operation of remote monitoring systems in Australia and internationally. Sentinel compliments the Envirada group offerings through their innovative data management platform DataSight.

The DataSight platform provides a subscription based flexible and secure data platform and manages environmental data in over 25 countries.

It is used by mining companies, local governments, energy providers, and environmental consultancies.

Over the past 22 years Sentinel has a built highly respected reputation and track record of successful projects in Chile, Indonesia, Philippines, Fiji, Papua New Guinea, Tanzania, Zambia, Côte d'Ivoire and Mali.

Connectivity brands

ELPRO Technologies

35 years – still transmitting

ELPRO Technologies is a global leader in industrial wireless I/O connectivity with full engineering design, manufacture, supply and support of secure and flexible wireless solutions. We have over 35 years of experience and success in providing secure industrial communications.

ELPRO products allow customers to gain control of their assets and improve operations with scalable solutions from basic point-to-point, or meshing, to large scale infrastructure deployments. They cover all applications from the sensor to the control room. We have a clear focus on the customer and solving their problems by delivering a range of innovative, high-end custom engineered products that provide best in market, leading edge solutions into traditional and emerging industrial wireless I/O markets.

ELPRO Technologies solutions and products are distributed in over 180 countries. The range is used across a variety of applications and industries, including water/wastewater, oil and gas, mining, environmental, utilities, industrial automation and agriculture.

Padman Automation

Innovative irrigation Solutions

Over the past 30 years Padman stops have become the industry standard farm water control gate for Australian irrigators. Our range of Padman Automation winches and sensors now allow automation and management of entire irrigation systems using real-time soil and environmental data from the farm. Our easy to operate software gives you total control of your irrigation needs, delivering savings in time, water and energy. Delivering the right amount of water at the right time and place, maximising crop yield and optimising water efficiency. Whether you're a cane grower, a dairy farmer, a rice farmer, or a mixed cropping enterprise, our industry-specific automation products and systems will save you time, water and money.

Envirada Technology platform brands

Future proofing environmental intelligence

Envirada Labs develops and builds technology for the Envirada group. This technology platform provides the monitoring, connectivity and smarts that enable the effective water management and environmental stewardship that drive the Envirada business. Envirada Labs also

supports and enhances the Envirada business units with product and software development capabilities that incubate, accelerate and consolidate Envirada's leadership position in water, environmental and connectivity technology.

envault.com.au

Your data, your way

ENVAULT provides a custom web enabled data management solution for the measuring, reporting, alarming, control and presentation of data for various monitoring applications. ENVAULT's cloud-based data collection and management platform allows the management and access to data wherever and whenever required. The system puts the control of a site directly at the fingertips of the user, allowing insightful monitoring, planning and decision making. ENVAULT can be used with the cloud,

or enhance an existing platform, or system. It allows the manipulation, aggregation and configuration of a range of supported device types, from any number of connection methods. Data is completely customisable to suit application and team reporting requirements when monitoring and managing applications. ENVAULT enhances and consolidates Envirada's leadership position in water, environmental and connectivity technology.

DATASIGHT
powered by envault

Data Management Reporting Tool

DataSight offers a cost effective and easy-to-use solution for environmental data management and reporting. DataSight is used to manage various international clients critical operational and environmental compliance data assets and to make this data securely available online.

DataSight is an open, scalable solution environmental data storage, management, quality control and reporting needs allowing users to:
- Collect and store environmental and hydrometric data from a variety of sources, such as data loggers,
- Laboratory Information Management Systems, telemetry systems and manual data entry forms.
- Ensure data integrity, validity and compliance via advanced data analysis tools.

- Integrate environmental databases with other systems, such as GIS, SCADA and SAP.
- Configure automatic, scheduled reporting.
- Disseminate various environmental data and reports via web browser connectivity.
- Ensure security of your data via flexible user permission settings and detailed data audit trails

DataSight is in use across a wide range of international and local clients including mining organizations, water authorities, shipping ports, environmental consultancies, local governments and national government departments.

PRODUCTS

WATER	ENVIRONMENTAL	CONNECTIVITY
RainMAN **Bay Controls**	Aquamonix Solutions **EnAble – Smart City Solutions**	ELPRO Technologies **Alert2**
Aquamonix EMFLUX **Flow Technology**	Aquamonix Solutions **EnCom – Environmental Compliance Monitoring**	ELPRO Technologies **Wireless and Fieldbus Gateways**
ENVAULT	Aquamonix Solutions **EnAct – SCADA & Decisions Support – AI**	ELPRO Technologies **Wireless Ethernet and Cellular**
RainMAN **Gatekeeper**	Aquamonix Solutions **EnFEWS – Flood Warning Systems**	ELPRO Technologies **Wireless IO**
Electrical Systems Engineering **Remote Power Solutions**	Aquamonix Solutions **EnSign – Sign Solutions**	ELPRO Technologies **Wireless Serial**
Electrical Systems Engineering **Smart Pumping**	Aquamonix Solutions **EnSolve – Water Quality**	Padman Automation **Innovative Irrigation**
Electrical Systems Engineering **Solar Pumping Solutions**	Aquamonix Solutions **EnStruct – Structure & Asset Monitoring**	
Pump Engineers **Products**	Aquamonix Solutions **EnSure – Public Warning Systems**	
Pump Engineers **Service and Diagnostics**	Aquamonix Solutions **EnTrust – Data Management**	
RainMAN **Controllers**	Aquamonix Solutions **EnFire – Fire Monitoring**	
RainMAN **Rainbrain**	Aquamonix Solutions **EnVision – Remote Camera Systems**	
Tonick Watering **Two-Wire Technology**	Aquamonix Solutions **Envirogate – Field Edge Device**	
Tonick Watering **Encoders**		
Upton Agricultural Technology **Pivot Irrigators**		
Upton Agricultural Technology **Lateral Irrigators**		
Upton Agricultural Technology **Turf and Racetrack**		
Upton Agricultural Technology **Turnkey Solutions**		
Upton Agricultural Technology **Pivot Brain**		
Irrismart **Irrigation control and monitoring**		

Water products

RainMAN **Bay Controls**

A versatile solution for the control of flood bay irrigation, the Bay Advance Control System schedules and controls flood irrigation in multiple bays using the RainWAN LoRa module. This module reports when flood irrigation reaches field levels, so the bays automatically close field valves at the correct time, ensuring runoff is reduced and irrigation kept to optimum levels. The controller features a web interface that can be monitored, configured and managed remotely. The RainMAN Bay Control system comes with mains or solar power options.

Aquamonix EMFLUX **Flow Technologies**

Designed and manufactured in Australia, the Aquamonix EMFLUX Flow Technologies comprise a range of measurement and control solutions including magnetic flowmeters, telemetry systems and associated metering integration products. The flowmeters are designed and manufactured in Australia for the remote monitoring of surface and groundwater resources. Ideal for irrigation, municipal and mining applications the flowmeters come in sizes from 50mm up to 1500mm and handle flow rates from 1 l/s up to 5000 l/s. They are Pattern Approved to meet AS4747 to fully satisfy the demanding requirements for accurate metering of irrigation systems, as well as critical industrial applications across the municipal, resources and environmental sectors. Aquamonix EMFLUX flowmeters are used at over 40,000 sites around Australia, either as remote stand alone, integrated with a wide range of third party control and telemetry systems, or supplied as a fully web enabled flowmeter equipped with our Aqualink edge telemetry module that reports data in real time to our ENVAULT Cloud reporting system.

ENVAULT

Go beyond data collection, storage and visualisation with the ENVAULT Cloud Data Portal, putting you in firm control of your remote environmental data. The ENVAULT Cloud Data Portal has been refined and enhanced to provide a robust and flexible data management and reporting platform, allowing for complex analysis and transformation of data with custom functions. The platform provides support for a wide range of protocols, devices, and measurements, along with customisable reports, controls and visualisation options. Environmental and water data can be viewed on demand from a central, secure web accessible location, in a range of formats and time periods, direct through the secure ENVAULT Cloud Data Portal. In addition, for those requiring an open, scalable solution to collate, analyse and share, in a secure manner, environmental data to manage control and report, ENVAULT also offers the Seveno Datasight software modular solution.

DataSight **ENVAULT**

DataSight offers a cost effective and easy-to-use solution for environmental data management and reporting. DataSight is used to manage various international clients critical operational and environmental compliance data assets and to make this data securely available online.

DataSight is an open, scalable solution environmental data storage, management, quality control and reporting needs allowing users to:

- Collect and store environmental and hydrometric data from a variety of sources, such as data loggers,
- Laboratory Information Management Systems, telemetry systems and manual data entry forms.
- Ensure data integrity, validity and compliance via advanced data analysis tools.
- Integrate environmental databases with other systems, such as GIS, SCADA and SAP.
- Configure automatic, scheduled reporting.
- Disseminate various environmental data and reports via web browser connectivity.
- Ensure security of your data via flexible user permission settings and detailed data audit trails

DataSight is in use across a wide range of international and local clients including mining organizations, water authorities, shipping ports, environmental consultancies, local governments and national government departments.

RainMAN **Gatekeeper**

RainMAN Gatekeeper is a powerful PC or cloud-based management system that provides advanced channel management, quipment control, compliance monitoring, cost reporting and user based scheduling of water delivery. It includes Gatekeeper Field Controllers, the hardware, and Gatekeeper Central System, the software. Gatekeeper reduces water losses and improves efficiency of remote Infrastructure, as well as reducing the cost of manual labour, travel and OH&S risks.

The control module serves as both a data logger and programmable logic controller and is capable of the complex operation of a wide range of equipment. It can independently control gates from a single Gatekeeper control module to maintain required flows, levels or gate positions. Gatekeeper's advanced programming features and onboard diagnostic tools allow for multiple fixed sensor inputs, such as flowmeters, pressure sensors, level sensors and other industrial sensors. It operates as a standalone control system, or configured as a networkable RTU.

Electrical Systems Engineering
Remote Power Solutions

As renewable energy systems become the new normal in providing reliable energy, Electrical Systems Engineering provide Remote Power Solutions tailored to client requirements. Whether operating in isolation, or with paralleled grid connectivity, Electrical Systems Engineering's custom solutions include scalable modern technologies, such as solar and battery power. Hybrid power systems blend the energy generated from diesel generators, grid supply, photovoltaic cells and store it within battery systems. These innovative, resilient systems power small towns, rural areas, farms and mines with greater efficiency and security. Automated, versatile and scalable, they are also ideal for facilities in urban environments where space is at a premium.

Water products

Electrical Systems Engineering
Smart Pumping

Electrical Systems Engineering design, fabricate and install pump control systems that can be customised to existing or new infrastructure. Smart Pumping solutions encompass the complete setup of software and hardware for full automation - everything from submersible motors and centrifugal pumps to control boxes and irrigation pump control panels. Our automated pump control solutions serve a wide range of applications across agriculture, residential and commercial irrigation, livestock farming, mining, and manufacturing. All Electrical Systems Engineering Smart Pumping solutions are perfectly suited to the demanding Australian conditions and each control solution is coupled to well known pump OEMs, including Lowara, Franklin, Ebara, Grundfos, Caprari, Sterling and SX.

Electrical Systems Engineering
Solar Pumping Solutions

Electrical Systems Engineering provides a range of electrically driven pumping solutions powered by photovoltaic panels, providing the market with a more environmentally sustainable means of moving and managing water. We offer various solar water pump solutions without the need to completely overhaul existing processes. Our photovoltaic panels are equipped with solar trackers that align the panel with the direction of the sun, generating as much energy as possible. In addition, we offer hybrid solar / generator systems for days where the sun may not shine, providing consistent pump operation. Electrical Systems Engineering solar pumping solutions are used for livestock and crop irrigation, pump stations on farms, drinking and residential water supply, garden irrigation and commercial landscape irrigation, such as golf courses. For boreholes and wells in the agricultural industry, Electrical Systems Engineering configures customised systems with submersible pumps that are ideal for remote areas across Australia.

Pump Engineers – Products

Pump Engineers provides smart products and solutions for a wide range of applications, such as water transfer, pressure boosting and boiler feed, high pressure transfer and washdown, wastewater, effluent and solids handling, viscous product transfer, food, beverage and pharmaceutical applications, chemical processing and transfer, dosing, high temperature applications, aquaculture, irrigation and agriculture, through access to a wide range of international and Australian pumps. These pumps include: Bredel, Caprari, Davey, Dean, Ebara, Ebsray, Fybroc, Graco, Grundfos, Hawk, HPP, Inoxpa, Jung Hyghspin, KSB, Landia, Lowara, Mono, Netzsch, Omac, PE-PRIME, PE-MK Diaphragm Pump, Pentair Southern Cross, Panelli, Pomona, Prominent, Regent, Robuschi, Roto, Sandpiper, TKL, Truflo Pumps Inc, Varisco, Versamatic, Viking, Vogelsang and Wilden.

Pump Engineers – Service and Diagnostics

Pump Engineers' Service and Diagnostics division provides the following services: repairs (onsite and inhouse), machining and rebuilding of components, spare parts support, preventive maintenance inspections and reporting, planned maintenance, laser alignment, vbration analysis, protective coatings (internal and external), confined space entry, electrical disconnect and reconnect, installation and commissioning and energy audits and reports for existing pumping equipment.

RainMAN Controllers

Automation for agricultural, industrial and municipal irrigation systems is an essential driver for long term sustainability in the water sector. RainMAN Controllers have a continuous track record of over 30 years operation across an installed base of over 4000 sites. They have been providing robust and reliable remote water control solutions for a wide range of industries across municipal, agriculture and industrial clients. The RainMAN controller's onboard intelligence is designed to make smart decisions to protect irrigation infrastructure and manage water usage. When networked as a SCADA or Cloud System the RainMAN Irrigation Control System provides unparalleled ability to manage hundreds of interconnected RainMAN Controllers. What sets the RainMAN Controller apart is the focus on features designed for usage and encouraging sustainable practices.

RainMAN Rainbrain

RainMAN Rainbrain is an intelligent irrigation scheduling solution tailored to the agricultural, horticulrural and cropping industries. It optimises critical growing information to maximise output and assist in planning and decision making. Efficient irrigation drives reductions in water use, pump running times and labour, resulting in significant savings in operating and capital costs. RainMAN Rainbrain improves the efficiency of irrigation practices by providing advanced information collection and analysis and decision support through an automated system. It turns data into planning and action by bringing together the power of local Bureau of Meteorology weather forecasts, crop agronomy and existing network flow and irrigation data to deliver optimum 7 to 14 day irrigation schedules.

Tonick Watering Two-Wire Technology

Tonick Watering design, develop and manufacture a wide range of Two-Wire decoders and translators for the irrigation sector. Tonick Two-Wire Translators integrate into any PLC, RTU or irrigation controller providing a unique opportunity for systems integrators and OEMs to expand the capabilities of their systems through Two-Wire technology. Increasing demand for smart and flexible irrigation system has driven the rise in Two-Wire irrigation technology. Two-Wire systems are a great alternative to traditional multi-wire irrigation, the advantages being lower installation costs and the ability to modify and extend two-wire paths as the irrigation system grows. Over more than 30 years, Tonick Two-Wire systems have been applied to a range of applications globally, including iirrigated agriculture, commercial landscapes, water infrastructure, smart cities and golf and sports turfs.

Upton Agricultural Technology **Pivot Irrigators**

Upton Agricultural Technology Pivot Irrigators have been designed from the ground up to be the longest lasting and most cost effective centre pivot irrigator produced in the world today. Our smarter use of materials like stainless steel and high tensile, corrosion resistant aluminium pipe directly address the most common cause of short term failure of pivot irrigators - corrosion. Upton Agricultural Technology Pivot Irrigators are locally manufactured and have Australia wide support.

Upton Agricultural Technology **Linear Irrigators**

Upton Agricultural Technology channel feed and hose drag linear irrigation systems are built on the same rugged and corrosion resistant structure as our centre pivot irrigation systems. Precision alignment, coupled with an Australian designed and produced GPS guidance system means an Upton Agricultural Technology linear irrigation system spends more time getting the job done compared to other cheaper imported brands commonly prone to nuisance steering and alignment.

Upton Agricultural Technology **Turf and Racetrack**

Australia's most prestigious horse races are run on tracks prepared by specialised Upton Agricultural Technology manufactured equipment. Flemington racecourse in Melbourne, home of the world famous Melbourne Cup has relied on Upton Agricultural Technology racetrack irrigation systems for nearly 30 years to produce the finest racing surface possible. At Upton Agricultural Technology we have the ability, experience and track record to customise any of our turf or race track irrigation systems to precise requirements.

Upton Agricultural Technology **Turnkey Solutions**

If a project requires moving water from a river, lake, storage, or underground bore, Upton Agricultural Technology provides a complete water supply project solution. For over 50 years Upton Agricultural Technology has been involved in surface and groundwater pumping and have completed hundreds of regional water projects across Australia.

Whether mains power, diesel power or an environmentally sustainable solar or hybrid solution is required, Upton Agricultural Technology has the experience and track record to deliver. We also provide a full range of automation options for monitoring of flow, pressure and water draw down level and are fully equipped to perform independent bore hole flow testing and down hole video camera inspections.

Upton Agricultural Technology **Pivot Brain**

Upton Agricultural Technology Pivot Brain is a proprietary fully automated crop water application for the monitoring and control of pivot irrigators. Sensors and mapped data are used to track soil moisture profiles, crop water demand and near term weather and rainfall forecasts to provide a precise and variable application of water during the growing cycle. Pivot Brain maps location and watering needs so that water is delivered where and when it is needed for each specific area under irrigation. The mapped and tracked data is delivered back to a cloud based portable to provide real time control and allow decision making to maximise crop yields, manage water application and minimise energy usage.

Environmental products

Aquamonix Solutions
EnAble – Smart City Solutions

Aquamonix Solutions can combine all of your Smart City solutions into one neat solution. Our engineers will work with you to gather your Smart Solutions combining them into a single Cloud dashboard, or into client existing SCADA or cloud servers. Aquamonix Solutions have a number of Smart City sensor vendors ready to deploy into your Smart Ecosystem. These include: people counters, air quality, stormwater and wastewater monitoring, metering, smart bins and camera solutions.

Aquamonix Solutions
EnCom – Environmental Compliance Monitoring

Water resources, the atmosphere, landscapes, and biodiversity all play an important role in our identity and way of life and are fundamental when it comes to our economy. EnCom - Environmental Compliance Monitoring from Aquamonix Solutions assist governments, industry, business and the wider community to understand the impact their activities have on the environment and fulfil their protection and compliance requirements when it comes to environmental issues. Collecting and communicating environmental data in order to make sound decisions based on trusted insights is critical for responsible environmental stewardship.

Aquamonix Solutions
EnAct – SCADA & Decisions Support – AI

With over 25 years of experience in SCADA systems Aquamonix Solutions have seen it all. From single sensor installations to sprawling multi-protocol networks, Aquamonix Solutions has the experience and expertise to help you untangle and manage your legacy water control systems, or design new systems from the ground up. With our Australian made hardware solutions for communications, controllers and data decisions, we provide a complete integrated end to end solutions for remote monitoring and control of water infrastructure. We are leading the way in implementing smart wireless technology and software to improve water services and network management. Aquamonix Solutions understands the challenges that come with managing operational costs and aging infrastructure, while working within stringent regulatory compliance guidelines. We can also migrate SCADA systems to the cloud, or assist with device configuration. We are an AVEVA registered integrator and experienced with both Geo SCADA (formerly ClearSCADA) and Plant SCADA (formerly CITECT).

Aquamonix Solutions
EnFEWS – Flood Warning Systems

Aquamonix is the leading provider of flood early warning systems in Australia. Each year flood events have a significant impact on communities, causing property damage and risking lives. Early detection and warning of extreme rainfall and flood events allows residents to defend property and keep their families safe. Aquamonix have worked with local councils and communities for over 25 years to design and install well over 2000 remote flood warning systems. EnFEWS Flood Warning Systems integrate critical information into existing control and

warning systems to improve situational awareness and alarm responses, allowing at risk communities and residents to proactively monitor extreme weather and emerging flood threats

Aquamonix Solutions
EnSign – Sign Solutions

Each year in Australia flooded roads and crossings account for over 50% of all flood fatalities and 40% of flood rescues. Aquamonix Solutions is the leading provider of remote flood monitoring and warning systems for advanced notice of extreme weather events with EnSign - Sign Solutions. Aquamonix Solutions design and install a range of solar powered smart road warning solutions that allow at risk communities to act early to protect themselves, save lives and minimise property damage from approaching flood events. This cost effective, life saving technology provides seamless integration of intelligent sensors into smart infrastructure systems, such as flashing lights, flood cameras, boom gates and variable message signs.

Aquamonix Solutions
EnSolve – Water Quality

Aquamonix Solutions have been designing water quality compliance solutions for over 20 yrs. We can provide supply only kits with everything you will need, or complete turnkey solutions that will record water quality parameters, calculating loads, data management and fully data reports. These systems can be connected to automated samplers, cloud data, real time alarms and our envision system provides the ultimate visual data solution. Water is essential to life. Understanding its abundance and quality is vital to appropriate management. Be it for environmental protection, sustainable use, compliance monitoring, or to achieve operational efficiencies. Aquamonix Solutions is a trusted partner.

Aquamonix Solutions
EnStruct – Structure & Asset Monitoring

Information on the condition, position, and integrity of critical infrastructure in real time is critical for the operation, safety and security of remote assets. Combining smart sensing technologies with modern communications and many years of experience, Aquamonix Solutions provides innovative and trusted solutions to increase efficiency, prevent incidents, reduce costs and keep assets operational. Real time, accurate data is essential for informed decision making and automated responses. We lead the way in implementing smart wireless technology and software to improve structural monitoring, water services and network management, ensuring the best possible results from the devices and systems driving operations.

Aquamonix Solutions
EnSure – Public Warning Systems

EnSure Public Warning Systems inform at risk remote communities of impending danger. They allow for fast, effective notification to all people in an affected area without reliance on subscriptions, apps or mobile phone coverage. Aquamonix Solutions specialises in the design and implementation of mass public warning systems, such as flood and bushfire sirens to provide advanced notice of extreme events. Aquamonix Solutions' systems are designed for indoor and/or outdoor locations and wider, or remote, geographic regions. Combined with the ENVAULT Data Portal, early warnings, data analysis and live visual information enables emergency response organisations to quickly understand risks, communicate information and commence response actions.

Aquamonix Solutions
EnTrust – Data Management

The Aquamonix Solutions EnTrust cloud-based data management system provides a platform for the management, collection, centralisation and visualisation of remote data for environmental, resources and agricultural operations. Ground truth remote data captured via camera images or sensor measurement data, combined with powerful online analysis and visualisation tools, gives users enhanced situational awareness. With this vital information they can respond quickly to emerging threats or operational challenges. EnTrust turns remote data into smart information, allowing clients to advise, alarm and inform operational decisions and better protect assets, minimise harm and improve overall operational outcomes.

Aquamonix Solutions
EnFire – Fire Monitoring

Aquamoinx Solutions can upgrade existing flood warning infrastructure into a Fire warning system. This simple upgrade adds weather sensors to each site, creating a network of climate monitoring points. Once combined this creates a usable method to track fire activity and greatly improve forward response activities. EnAct data can also be enhanced with EnVision and ENVAULT to provide on the spot visual verification and real time alarms. This greatly improves overall resilience and situational awareness of the region.

Aquamonix Solutions
EnVision – Remote Camera Systems

The Aquamonix Solutions range of EnVision remote cameras quickly provide critical visual confirmation on local conditions from remote sites. Whether related to severe weather, flooded roads, natural disasters, infrastructure monitoring, agricultural activities, site security, or just providing the invaluable service of broadcasting live data to local communities, EnVision Cameras provide real time images and video from any site, anywhere, at any time. These solar powered remote cameras capture 360-degree vision, day and night, manually, by live event or automatic time. The range offers connectivity to the web via radio/cellular/satellite and can integrate images/vision into web based dashboards via the ENVAULT custom data management solution

Aquamonix EMFLUX
EnviroGate – Field Edge Device

The EnviroGate Field Edge Device is an all-in-one, low powered control and telemetry device (radio, cellular, IoT, satellite) for the monitoring and control of remote field sensors for hydrographic, flood warning, irrigation and asset management applications. The unit features inbuilt solar charger, datalogger and communications module packaged in robust housing to provide connection and control for devices. EnviroGate units allow seamless connection to a wide range of sensors, cameras, remote controllers and IoT devices, including the ENVAULT Cloud Data Portal and other Envirada solutions. They are ideal for environmental monitoring, resource management and infrastructure control solutions.

Connectivity products

ELPRO Technologies
Alert2

Elpro Technologies has been at the forefront of flood warning and disaster management networks for over 25 years with its ALERT and ALERT2 field stations, repeaters, receivers and decoders. With thousands of installations across Australia and overseas, ELPRO Technologies provides a reliable, secure and flexible flood warning and disaster management communication path for new and existing users. Our solutions for Flood Warning and Disaster Management also extend beyond ALERT and ALERT2 systems through to IoT and public and private networks, ensuring security and ownership of the data during critical events.

ELPRO Technologies
Wireless and Fieldbus Gateways

Elpro Technologies offers Gateways available in common industrial and environmental protocols, allowing a new wireless network to seamlessly communicate with existing network infrastructure. This makes implementation of wireless solutions simple, low cost and reliable. Our Wireless and Fieldbus Gateways offer high kbps data throughput, data security with WPA and AES256 Encryption, over the air ethernet protocols to support future and legacy devices, Pro-Mesh automatic path selection and internal web dashboard. They support multiple data rates simultaneous for short and long-distance communication, frequency agility roaming and over the air context-based data compression and forwarding with error correction. A single unit can be programmed as a field station, repeater, or base station for some modules

ELPRO Technologies
Wireless Ethernet and Cellular

ELPRO Technologies is at the forefront of Wireless Ethernet and Cellular technology, offering ethernet data solutions in several radio frequency bands and giving users the flexibility to select the technology that best matches their particular application requirements. Our solutions support legacy applications, like RS232 and RS485 gateway, and serial server to provide interfacing between new and old assets. The full product portfolio includes licensed and licence free frequency of ethernet networking solutions and modems.

ELPRO Technologies
Wireless I/O

ELPRO Technologies offers a full range of wireless I/O modules that transmit both analog and digital signals over the wireless network. Our cutting edge meshing capabilities provide industry leading reliability to ensure devices always stay within the network. Expansion I/O modules are also available to support the largest of networks.

ELPRO Technologies
Wireless Serial

Elpro Technologies Wireless Serial products are available in both licenced and licence free options. They connect to PLC's, SCADA, DCS and other intelligent serial devices. The modules are highly scalable from simple point to point to large networks. They can also interface with many of the Elpro Technologies Wireless I/O and Ethernet products to provide serial support interface. Our Wireless Serial products are best in class to ensure even the most remote locations can be accessed reliably and at low cost.

PADMAN Automation
Innovative Irrigation

Over the past 30 years Padman stops have become the industry standard farm water control gate for Australian irrigators. Our range of Padman Automation winches and sensors now allow automation and management of entire irrigation systems using real-time soil and environmental data from the farm. Our easy to operate software gives you total control of your irrigation needs, delivering savings in time, water and energy. Delivering the right amount of water at the right time and place, maximising crop yield and optimising water efficiency. Whether you're a cane grower, a dairy farmer, a rice farmer, or a mixed cropping enterprise, our industry-specific automation products and systems will save you time, water and money.

Leaders in water technology

Leaders in environmental technology

Leaders in connectivity technology

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