

## GateKeeper Control Module

The **GateKeeper Control Module** is the newest addition to our growing range of **Innovative Control Systems**.

The **GateKeeper Control Module** is built on the same rugged and versatile technology that has made our controllers the first choice of professional irrigation managers for 20 years, the GateKeeper gives a highly functional control system at a low cost.

The GateKeeper Control Module can operate as a standalone control system or can be configured as a networkable RTU with the addition of a simple plug in communications pack. It serves as both a data logger and programmable logic controller and is capable of complex operation of a range of equipment.

Independently control up to four gates from a single GateKeeper control module to maintain required flows, levels or gate positions.

The GateKeeper controller has advanced programming features, onboard diagnostic tools and allows for multiple fixed sensor inputs such as flow meter, pressure sensors, level sensors and a wide range of other sensors.

The GateKeeper Control Module can be configured to work almost any actuated gate or valve and also allows for various power input options, allowing for mains or DC Solar systems....., whatever the application there is a GateKeeper Solution to fit your needs!



### GateKeeper Features

- Control up to 4 gates per control module
- Control Methods: Flow, Level, Position
- PID Tuned response to setpoint change
- Overflow Protection
- Standalone or RTU
- SCADA Compatible
- Solar, DC or AC Powered
- Multi-Level Password on Keyboard
- Large Direct Access Keypad
- Large 4 line Daylight Screen
- Range of Enclosure Options
- Australian Made

### Typical Applications

- SCADA Systems
- Channel Control
- Irrigation Networks
- Flow Monitoring
- Reservoir Monitoring
- Pump Station Integration
- Bay Advance Systems
- On Farm Irrigation
- Remote Systems
- Pump Station Control
- Data Logging Stations

GateKeeper is designed and manufactured to be rugged and durable and operate in a wide range of applications, it is able to tolerate harsh environments without the requirement for external cooling and is repairable.

### Electrical Specifications

<b>Power Supply Options</b>	24VAC 50/60Hz 24VDC 12VDC	<b>Fuse</b>	3.15A on board fuse for power supply and relay output voltage
<b>Outputs</b>	Relay Outputs N/O 30VAC/VDC 3A Max 3000VAC Isolation 10ms contact settling time Current sensing on relay bank	<b>Digital Inputs</b>	Close contact optically isolated inputs 4VDC or up to 12mA (25mW) per input 1600VDC isolation on the supply <u>Pulse inputs:</u> 0.1 to 50 pulses per second 10ms minimum pulse width <u>Frequency inputs:</u> 1 to 450Hz
<b>Communications</b>	1 x RS485 Expansion Port 1 x RS232 CCS Port 2 x Configurable RS485/232 Ports	<b>Analog Inputs</b>	4-20mA optically isolated inputs Loop or self-powered sensors 24VDC loop supply 1600VDC isolation on the supply
<b>Operating Conditions</b>	Temperature 0° to 73°C Humidity 5 to 95% non-condensing		

### Central Control Compatibility

The GateKeeper Control Module will connect seamlessly to the GateKeeper SCADA System via a wide range of communication options.

A large range of third party communications equipment is able to be integrated with the GateKeeper Control Module, check the design guide for specifications.

### Networking Options

<b>Network Protocols</b>	Open Protocol DNP3 MODbus	<b>Cellular Connect Options</b>	3G/GSM M2M Modem 3G/GSM Gateway Modem
<b>Central Control Capability</b>	GateKeeper Central Control RAiNman Central Control Generic SCADA Based Systems	<b>Wireless Connect Options</b>	VHF Radio UHF Radio Wireless WAN Networks
<b>Direct Connect Options</b>	RS485 Fibre Optic	<b>Other Options</b>	Sat Link Modem/Router

### Enclosure Formats

The GateKeeper is available in several mounting formats including panel mount, wall mount and pedestal mount enclosures, and can be customized to suit any application.

For more information, contact your nearest GateKeeper dealer or Aquamonix representatives worldwide.