

# Product Information



## SCADA Ready Controller

Aqua Systems 2000 introduces the SCADA Ready Controller for irrigation canal control operations. Plug-and-play SCADA systems are made easy with built-in support for the widely accepted Modbus® and DNP3 communications protocol.

Developed around an off-the-shelf industrial programmable controller and panel mounted operator interface, this integrated package is a reliable, flexible and user friendly control solution for both over-shot and under-shot control gates. Combined with fully operator configurable control algorithms, the SCADA Ready Controller from Aqua Systems 2000 provides solid control for any canal automation application whether it be large or small.

### Features:

- Low power, 12 Vdc operation
- Suitable for solar powered applications
- NEMA 4 equipment enclosure
- SCADA Pack controller (standard) Modicon M340 (option)
- Touch Screen Human Machine Interface
- Integrated 12 or 24Vdc reversing motor starter with overload protection
- Fully adjustable control and alarm settings
- Accepts loop powered level transmitters: cable extension spring return, ultrasonic or differential pressure
- QPS Evaluation (UL/CSA equivalent) inspected

### Control Algorithms:

- Fully configurable for level or flow control with user selectable overrides
- Upstream or Downstream level maintained using proportional plus reset control
- Over-shot flow control maintained using gate head differential control
- Timed set point changes



### Control Applications:

- Langemann gate
- Single-leaf overshot gate
- Undershot gate
- Slide gate
- Multiple gate structures
- Pumping systems
- Trash management

### Applications Specific Options:

- AC power with battery backup
- DC solar power
- Weather-proof equipment enclosures
- Gate position feedback
- Custom control algorithms
- SCADA Radio

