

AEGIS™ Series for Cooling Tower, Boiler, Process and Wastewater Applications



AQUATRAC™ - The Leader in Technology by Design

Aquatrac's innovative design offers both on/off and variable frequency pump control with ppm setpoints.

AQUATRAC's AEGIS™ controller provides the latest in technology and is the perfect economical solution for process, cooling, boiler and wastewater treatment applications.

Features

- Inhibitor Feed Using PPM Setpoints
- Volumetric Timer Controls
- Relay Mirroring
- Optional Ethernet Communications
- MODBUS
- Industrial and Commercial Series
- Plug and Play Upgrades
- Aquatrac Thermal Flow Switch

AEGIS™ Advantages & Benefits

- **Variable Frequency Pump Controls:**
Accurate and precise chemical feed using pulse outputs. *Can also select On/Off control if desired.*
- **Data Logging:**
Data history provides sensor minimum, maximum and average. Also records pump run times, pump feed volume, calculated drum levels, water meter volume, tower run time.
- **Aquatrac Exclusive Thermal Flow Switch:**
Aquatrac's exclusive design does not require user adjustment or calibration. Operates on 1GPM flow rate with no moving parts.
- **ProMinent Pump Integration:**
Select from popular ProMinent pump models built into the Aegis programming for accurate ppm feed, tank level and feed volume.
- **Feed Inhibitor using ppm setpoints:**
Accurate and precise inhibitor feed by simply inputting desired ppm level based on inhibitor chemistry. *Use with make-up water meter.*
- **Plug and Play Onsite Upgrades:**
The Aegis features Plug and Play technology allowing the user to perform simple onsite upgrades and scalability.
- **Program chemical feed based on drop tests:**
Program chemical feed by entering results of system testing using ppm, ml or drop tests. Enter the new value and desired alarm setpoints for worry-free chemical feed and control.
- **Drum Level Alarms**
Provide low level alarms without the use of level sensors. The Aegis calculates volume fed and subtracts from tank inventory.
- **Communications:**
Ethernet, MODBUS, land phone line

Specifications

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Rating—Detail		Notes
Analog-Sensor I/O		
Conductivity Sensor	Tower, Boiler, Condensate & Integral Flowswitch sensors	Default tower sensor includes 1GPM integral flowswitch
Fixed Temperature Sensor Input	Thermal compensation for both pH and Conductivity	Displayed as °F, °C or °K
Fixed 4-20mA Current Loop input	Assignable to control any relay or variable frequency control	Single point calibration if 4mA=0
4 max. 4-20mA Current Outputs	DC isolated, Manual & Auto modes, Interlocking, Alarm	Each optional current output uses a dual sensor card slot
7 max. Manual-Inventory-ppm Inputs	track drop counts, inventory, tank level, ppm	Alarmed Delay prevents premature system alarms
Communications User Interface		
Keypad - LCD	5 key tactile feedback, universal characters, 2 line, backlit	Scan rate 100 mS nominal
10Base T, TCP/IP Ethernet LAN (optional)	HTML, Micro Web Server with user definable IP address	Static IP
		Browser shows controller in real time
Controls for ON/OFF & Variable Frequency		
Sequential Volume Setpoints	Feed a fixed volume for every make-up volume	Meter only, fault tolerant feed controls
Blocking	Any of 8 controls may block any other control	Prevents incompatible concurrent controls
Interlocking	1 to 4 contact sets can be programmed for each digital output	Relays & Frequency controls OFF when contact set opens
9 Biocide Event Controls	Each of 9 controls includes 28 timed events	Each control selectable for 1, 7 & 28 day cycles
System		
Power	120 or 230VAC, 50/60 Hz	Line voltage selectable
Fusing for 5 AC powered loads	5 Amps @ 120VAC or 2.5Amps @ 230VAC	Alarm on open AC load fuse
Surge Suppression	Relay 2-5 N.O. contacts snubbed @ 0.1uF, 150 ohm	Varistor on AC line input
Accessory Power	15-22VDC, Unregulated, Thermally Fused @ 50mA	Auto-recovery on fault cleared.
Enclosure	Non-metallic, NEMA4X	7.5" W x 11.3" H x 5.5" D (190mm W x 287mm H x 140mm D)
Certifications		
CSA: Pending		CSA tested to comply with UL, (Pending)