SlimFlex Controller

SlimFlex Series Cooling Tower Controllers

The **ProMinent® SlimFlex** uses the latest technology to provide reliable control and flexibility at a competitive price.

Standard Features

- Conductivity & temperature inputs
- Two digital inputs for water meter & flow switch
- Four relay ouputs
- 5-Key universal keypad
- 2 Line, 16 character backlit display
- Built-in diagnostics
- CSA/CE/UL approved
- NEMA 4X enclosure
- Umbilical type plug connections

Options

- Communication Options: Ethernet networking, dry contact alarm relay or 4-20 mA output on conductivity
- pH Control
- ORP Control

Benefits

- **Selectable Inhibitor Feed:** *Provides 4 feed modes; bleed and feed, bleed then feed, proportional to makeup water volume and percentage time*
- **Water Mater Input:** *Allows for chemical to be fed based on water volume versus timed pump control methods generally found on comparably priced controllers.*
- **Single Point Calibration:** *For ease of start up and operation. Warning message immediately detects fouled or faulty sensors.*
- **Robust Diagnostics:** *Provides complete 24-hour history of bleed valve operation, relay run times and minimum/maximum temperatures.*
- **Keypad Password:** *Eliminates unauthorized adjustments.*
- **Optional Web Browser User Interface with Networking Capability:** *Provides live views with complete programming and calibration capabilities remotely using a LAN or WAN. View our live demo at http://controller.prominent.us:1007*
- **Dual 28 Event Biocide Timers:** *Programmable for 1, 7 or 28 day cycles. Prebleed on time and/or conductivity setpoint and lock-out program.*
- **Sequential Blowdown Control:** *Measures make-up volume then bleeds for user set time.*

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Specifications

	Rating - Detail	Notes
Analog-Digital I/O		
Conductivity Sensor	Auto ranging from 100uS to 10,000uS	Single point calibration, temperature compensated
Temperature Sensor	32°F to 125°F (0°C to 50°C)	Displayed as F or C
Thermal Flow Switch	1GPM trip within 30 seconds	Typically 10 second trip within FLOW / NO FLOW
Water Meter Input	400Hz, 0.5mA @ 5VDC measurement current	Accepts paddlewheel or contacting head
Relay Outputs	4 SPST	Single controller fuse
4-20mA Output (optional)	Single DC isolated, loop powered	User definable span, alarms on open loop
Alarm Relay (optional)	500mA @ 24VDC Dry contact set, unfused	Normally closed contact, open on alarm
Communications User Interface		
Keypad-LCD	5 Key tactile feedback, universal characters 2 line x 16 character, backlit	Scan rate 100 mS nominal User adjustale contrast
10 Base T, TCP/IP Ethernet LAN (optional)	HTML micro web server with user definable IP address	User definable static IP Remote Monitoring & Programming
Controls		
Relay ON/OFF	ON/OFF control	4 Relay Outputs
Volumetric	User set, measure volume & pump on time	Sequential control, measures make-up volume then bleeds for user set volume
Interlocking	Flow switch contact set input	Relays OFF when contact set opens
Blocking	Inhibitor feed may be set to block on bleed	
Alarms - Feed Limit Timers	Minutes per day	Auto-reset @ Midnight
System		
Units of Measurement	US/Metric selectable	Option to use US or Metric units of measurement
Electrical	120VAC, 50/60Hz	
Internal Fusing	5 AMPS @ 120VAC	
Surge Suppression	Relay 2 N.O. (bleed) contacts snubbed @ 0.1uF, 150ohm	Varistor on AC line input
Accessory Power	15-22VDC, unregulated, thermally fused @ 50mA	
Enclosure	Non-metallic, NEMA 4X	5.9"W x 5.9"H x 3.5"D (150mm W x 150mm H x 90mm D)
Certifications		
CSA, CE, UL	CSA tested to comply with UL	