microFLEX M2T Controller

Single Cooling Tower Controller

The **ProMinent**® **microFLEX** is a cooling tower controller that combines the latest technology with an economical solution. Our breakthough design offers a worry-free thermal flow switch that does not require any user adjustments or calibration.

Standard Features

- Tower conductivity and temperature input
- Flow switch status input
- 5 Key universal keypad
- 2 Line, 16 character backlit display
- Single water meter input

Benefits

- Provides 4 feed modes; bleed and feed, bleed then feed, proportional to makeup water volume and percentage time.
- Water Meter 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.
- What and Why Information: On the controller display is a valuable troubleshooting tool. Solenoid and chemical pump relays show complete status. Shows WHY the relay is on/off.
- **Controller Run Time:** Gives total hours per day and total operating days since initial installation.
- **Robust Diagnostics:** Provide complete 24-hour history of bleed valve operation, relay run times and minimum/maximum temperatures.
- **Keypad Password:** Eliminates unauthorized adjustments.
- Communication Options: Include Ethernet networking, dry contact alarm relay or 4-20mA output on conductivity.
- Optional Web Browser User Interface with Networking Capabilities: Provides ability to direct connect to the controller from a portable workstation, such as a laptop computer. Can also view critical processes remotely through the use of a LAN. View our live demo at http://208.37.73.86:1004





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Specifications

	Rating - Detail	Notes
Analog-Digital I/O		
Conductivity Sensor	Auto ranging from 100uS to 10,000uS compensated	Single point calibration, temperature
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 NO FLOW	Typically 10 second trip with in FLOW/
Water Meter Input	400Hz, 0.5mA @ 5VDC measurement	Accepts paddlewheel or contacting
current	head	
Relay Outputs	1 SPST (Inhibitor), 1 SPDT (Bleed)	Single controller fuse
4-20mA Output (optional)	Single DC isolated, loop powered loop	User definable span, alarms on open
Alarm Relay (optional) un-fused	500mA @ 24VDC Dry contact set, alarm	Normally closed contact, open on
Communications User Inte	erface	
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	HTML micro web server with user	User definable static IP
Ethernet LAN(optional)	definable IP address	Remote Monitoring & Programming
Controls		
Relay ON/OFF	ON/OFF control valve	Relay 1 chemical feed, Relay 2 bleed
Volumetric feed	User set, measure volume & pump	Sequential control, measures make-up
	on time	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 measurement	Option to use US or Metric units of
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	' and the second se	
CSA: Pending		CSA tested to comply with UL (Pending
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