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

- Selectable Inhibitor Feed: 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: http://controller.prominent.us:1004

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Specifications

Rating - Detail Notes Analog-Digital I/O Conductivity Sensor Conductivity Sensor Auto ranging from 100uS to 10,000uS Single point calibration, temperature comp Destruction	ensated
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Temperature Sensor32 °F to 125 °F (0 °C to 50 °C)Displayed as F or C	
Thermal Flow Switch 1 GPM trip within 30 seconds Typically 10 second trip within FLOW/NO F	LOW
Water Meter Input400Hz, 0.5mA @ 5VDC measurement currentAccepts paddlewheel or contacting head	
Relay Outputs 1 SPST (Inhibitor), 1 SPDT (Bleed) Single controller fuse	
4-20 mA Output (optional) Single DC isolated, loop powered User definable span, alarms on open loop	
Alarm Relay (optional) 500 mA @ 24 VDC Dry contact set, unfused Normally closed contact, open on alarm	
Communications User Interface	
Keypad-LCD 5 Key tactile feedback, Universal Characters Scan rate 100 mS nominal	
2 line x 16 Character, Backlit User adjustable contrast	
10 Base T, TCP/IP Ethernet HTML micro web server with user definable IP address User definable static IP	
LAN (optional) Remote Monitoring & Programming	
Controls	
Relay ON/OFF ON/OFF control Relay 1 chemical feed, Relay 2 bleed valve	
Volumetric Feed User set, measure volume & pump on time Sequential control, measures make-up volubleeds for user set volume	ume then
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	ement
Electrical 120/240 VAC, 50/60 Hz, Single Phase Factory setting	
Internal Fusing 5 Amps @ 120VAC	
Surge Suppression Relays 2 NO (bleed) Contacts snubbed @ 0.1 uF, 150 Varistor on AC line input ohm	
Accessory Power 15-22 VDC, Unregulated, thermally fused @ 50 mA	
EnclosureNon-metallic, NEMA 4X5.9"W x 5.9"H x 3.5"D (150mmW x 150mm)	H x 90mmD)
Certifications	
CSA, CE, UL CSA tested to comply with UL (Pending)	



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