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 at http://208.37.73.86:1004



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Specifications

Analog-Digital I/O 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 with in FLOW/ NO FLOW Water Meter Input 400Hz, 0.5mA @ 5VDC measurement Accepts paddlewheel or contacting current head 1SPST (Inhibitor), 1 SPDT (Bleed) 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, universal characters 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 Valve Volume tric feed User set, measure volume & pump volume then bleeds for user set volume interlocking Interlooking Inhibitor feed may be set to block on bleed Option to use US or Metric units of measurement Electrical 120VACF, 50/60Hz Inhibitor feed may be set to block on bleed Option to use US or Metric units of measurement Interlooking<		Rating - Detail	Notes
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	Accessory Power	15-22VDC, unregulated, thermally	
	Enclosure		5.9"W x 5.9"H x 3.5"D
			(150mm W x 150mm H x 90mm D)

Certifications

CSA: Pending





ProMinent Fluid Controls, Inc. (US)

CSA tested to comply with UL (Pending)

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