multiFLEX M5T/M10T Controller

Cooling Tower Controller

*The **ProMinent® multiFLEX** is a completely customizable microprocessor that provides the highest degree of control and flexibility. Unlock the full potential of your program using Plug and Play Technology and Trackster 3 software.*

Standard Features

- Control multiple cooling towers
- Web browser accessible
- LAN accessible
- Up to 14 analog inputs or outputs
- Up to 12 digital inputs
- Up o 10 relay outputs
- Compatible with Trackster 3 software

Benefits

- **Flexible Control:** Multiple processes can be managed using any number of combinations with one controller.
- **Data Logging:** Detailed data history provides sensor minimum, maximum and average per each log period. Also records pump run times, pump feed volume, calculated drum levels, water meter volume and tower run time.
- **Exclusive Thermal Flow Switch:** Innovative design does not require user adjustment or calibration. Operates on 1GPM flow rate with no moving parts.
- **Feed Verification:** Highly accurate chemical feed with 1mL resolution. Calculates, displays and data logs chemical ppm based on system parameters. Alarms on failure to feed. Additional feature provides tank inventory and low tank level alarm without the use of level sensors.

- **Communications:** TModem, Ethernet TCP/IP and keypad programmable. Remotely monitor and control your water treatment program on any computer and from anywhere in the world with the use of a standard web browser. View our live demo at http://controller.prominent.us:1000
- **Plug and Play Onsite Upgrades:** The multiFLEX features Plug and Play technology allowing the user to perform simple and economical onsite upgrades.
- **multiFLEX Advanced Technology:** Maximize your treatment potential with ProMinent's exclusive features. Rate to Volume, Rate to Stroke, Timed Cycling and Time Modulation provide progressive control, taking your program to a whole new level!
- **Drum Level Management:** Provide digital low level indication or utilize our analog tank sensor to view level in gallons, inches or liters.
- **Trackster Software:** Trackster 3 Software completes the package, providing the ultimate in program management. Features such as customized live views, alarm notification, graphing and reporting of all I/O data with exporting capabilities, and email of historical data are all possible with the use of this powerful tool.
  View live demo:
  http://controller.prominent.us:1000

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Specifications

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	Rating - Detail		**Notes**
Analog-Digital I/O	**M5T**	**M10T**	
Analog Inputs and Outputs	1-7 inputs for sensors, 4-20mA inputs / 4-20mA outputs	1-14 inputs for sensors, 4-20mA inputs / 4-20mA outputs	Auto configuration on driver installation & removal DC Isolated, Loop Powered
Digital Inputs	6 Inputs	12 Inputs	User configurable as water meters or contact sets
Relay Outputs	1 SPST, 4 SPDT	2 SPST, 8 SPDT	Fused in sets of 5 relays
Alarm Relay (optional)	Dry Contact set, unfused		User selected NO or NC
Communications User Interface	**M5T**	**M10T**	
Keypad-LCD	5 Key tactile feedback, Universal Characters 4 line x 20 Character, Backlit		Scan rate 100 mS nominal User adjustable contrast
10 Base T, TCP/IP Ethernet LAN	HTML, Telnet Micro Web Server User Definable IP address & port		Password, User ID protected Browser shows controller in real time
Modem (optional)	56K, V.90 Remote Telnet Access		Dial-out on alarms to pager or PC
Data Logging	600 Entries for each 26 inputs & 5 relays, Stored in XML format	600 Entries for each 26 inputs & 10 relays, Stored in XML format	Adjustable from 5 to 1440 minutes per entry
Controls	**M5T**	**M10T**	
Relay ON/OFF	ON/OFF control		Any relay can be configured for any control
Proportional 4-20mA (optional)	User defined control set by sensor or relay control		Software ZERO & SPAN adjustments
Volumetric	User set, measure volume & pump on time then bleeds for user set volume		Sequential control, measures make-up volume
Captured Sample	Sample, Measure, Blowdown, Resample user set timer		Any sensor may be used
Interlocking	1 to 4 contact set inputs, AND & OR support		Relays OFF when contact set opens
Blocking	1 to 4 relays may block any other relay feed		Support for common Oxidant-Inhibitor
Alarms - Feed Limit Timers	Minutes per Actuation & DAy		User defined on Feed Limit
Feed Verfication (optional)	PPM calculation based on volume feed & cycles of concentration		Fail to Feed is no volume counted after 30 seconds of pump ON time
System	**M5T**	**M10T**	
Electrical	120/240 VAC, 50/60 Hz, Single Phase		Switch Selectable
Fusing	7.3 Amps @ 120VAC, 4.15 Amps @ 240VAC		Relay Fused 1-5 & 6-10, 6.3 ea. Logic fused @ 1A
Surge Suppression	Relays 2-5 & 7-10 NO Contacts snubbed @ 0.1 uF		Controller Isolated from AC line
Accessory Power	15-22 VDC, Unregulated, thermally fushed @ 200mA		
Enclosure	Non-metallic, NEMA 4X, IP65		11.5"W x 13.5"H x 7"D