

# multiFLEX M5B/M10B Controller

## Boiler Controller



ProMinent®

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 up to 8 boilers
- Web browser accessible
- LAN accessible
- Up to 14 analog inputs or outputs
- Up to 12 digital inputs
- Up to 10 relay outputs
- Compatible with Trackster 3 software

### Benefits

- **Flexible Control:** Multiple processes can be managed using any number of combinations with one controller. Monitor softener regeneration, condensate conductivity and pH. Automate sulfite, amines and inhibitor chemicals. Select from continuous or captured sample.
- **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.
- **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: <http://controller.prominent.us:1002>
- **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 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 our live demo: <http://controller.prominent.us:1002>
- **Captured Sample:** Flashing does not affect the accuracy of ProMinent's Sample & Hold Conductivity Control. Repeatable thermal compensation is built into the sampling sequence eliminating the need for frequent calibration.

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## Specifications

Specifications			
	Rating - Detail		Notes
<b>Analog-Digital I/O</b>	<b>M5B</b>	<b>M10B</b>	
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
Digital Inputs	6 Inputs	12 Inputs	DC Isolated, Loop Powered 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
<b>Communications User Interface</b>	<b>M5B</b>	<b>M10B</b>	
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
<b>Controls</b>	<b>M5B</b>	<b>M10B</b>	
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 Verification (optional)	PPM calculation based on volume feed & cycles of concentration		Fail to Feed is no volume counted after 30 seconds of pump ON time
<b>System</b>	<b>M5B</b>	<b>M10B</b>	
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 fused @ 200mA		
Enclosure	Non-metallic, NEMA 4X, IP65		11.5"W x 13.5"H x 7"D

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