multiFLEX M5B/M10B Controller

Boiler 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 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 continous 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 at http://208.37.73.86.1000*

- **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 whole new level!*

- **Drum Level Management:** *Provide digitial 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 at http://208.37.73.86:1001*

- **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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- sign up for our electronic newsletter
- download literature and manuals
- validate your product warranty

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Specifications

	Rating - Detail		Notes	
Analog-Digital I/O				
	M5B	**M10B**	**M5B**	**M10B**
Analog Inputs and Outputs	1-7 inputs for sensors, 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	1SPST, 4 SPDT	2 SPST, 8 SPDT	Fused in sets of 5 relays	
Alarm Relay (optional)	Dry Contact set, un-fused		User selected NO or NC	
Communications User Interface				
Keypad-LCD	5 Key tactile feedback, universal characters 4 line x 20 character, backlit		Scan rate 100 mS nominal User adjustale 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				
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		Sequential control, measures make-up volume then bleeds for user set volume	
Captured Sample	Sample, Measure, Blowdown, Resample user set timing		Any sensor may be used	
Interlocking	1 to 4 contact set inputs, AND & OR support		Relays OFF when contact set opens	
Blocking feed	1 to 4 relays may block any other relay		Support for common Oxidant-Inhibitor	
Alarms - Feed Limit Timers Feed Verfication (optional)	Minutes per Actuation & Day PPM calculation based on volume feed & cycles of concentration		User defined on Feed Limit Fail to Feed is no volume counted after 30 seconds of pump ON time	
System				
Electrical	120/240VAC, 50/60Hz		Switch Selectable	
Fusing	7.3 Amps @ 120VAC, 4.15 Amps @240VAC		Relay Fused 1-5 & 6-10, 6.3A ea. Logic fused @ 1A	
Surge Suppression	Relays 2-5 & 7-10 NO Contacts snubbed @ 0.1uF		Controller Isolated from AC line	
Accessory Power	15-22VDC, Unregulated, thermally fused @ 200mA			
Enclosure	Non-metallic, NEMA 4X, IP65		11.5"W x 13.5"H x 7"D	
Certifications				
CSA, CE, UL	CSA tested to comply with UL			