microFLEX M2B Controller

Single Boiler/Condensate Controller



The **ProMinent®** microFLEX is a powerful controller integrating built-in diagnostics with realtime monitoring in a compact design.

Standard Features

- Boiler or Condensate Conductivity input
- Single water meter input
- Boiler status input
- Chemical feed relay
- 5 Key universal keypad
- 2 Line, 16 character backlit display
- Boiler blowdown or condensate diverter relay (solenoid valve or motorized ball valve)

Benefits

- Selectable chemical feed mode: Provides 3 feed modes; feed on volume, blowdown & feed and percentage time.
- Conductivity control: Can be programmed using timed or continuous sampling.
- Water meter input: Allows for chemical to be fed based on water volume versus timed pump control methods generally found on comparably priced controllers.
- What and Why Information: Diagnostics shown on display are a valuable troubleshooting tool. Conductivity valve and chemical pump relays show complete stauts. Shows WHY the relay is on/off.

- Single point calibration: For ease of start up and operation. Warning message immediately detects foulled or faulty sensors.
- Controller run time: Gives total hours per day and total operating days since initial installation.
- Robust diagnostics: Provides complete 24 hour history of blowdown valve operation and chemical relay timing intervals.
- Keypad password: Eliminates unauthorized adjustments.
- Communication options: Includes Ethernet networking, dry contact alarm relay or 4-20mA output on conductivity.
- Optional web browser user interface with networking capability: 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 boiler demo: http://controller.prominent.us:1005



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Specifications

Rating - Detail Notes	
Analog-Digital I/O	
Conductivity Sensor Auto ranging from 100uS to 10,000uS, rated 250psi Single point calibration	
Water Meter Input 400Hz, 0.5mA @ 5VDC measurement current Accepts paddlewheel or cor	ntacting head
Relay Outputs 1 SPST (Chemical feed), 1 SPDT (Bleed) Powers either solenoid or m	otorized valve
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, op	en 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 Static IP	
LAN (optional) Use browser to see I/O, edit	program
Controls	
Relay ON/OFF Captured sample & ON/OFF control Relay 1 chemical feed, Relay	y 2 bleed valve
Volumetric Feed User set, measure volume & pump on time	
Interlocking Contact set input Blowdown & feed stop	
Alarms - Feed Limit Timers Minutes per day Auto-reset @ Midnight	
System	
Electrical 120/240 VAC, 50/60 Hz, Single Phase Factory setting	
Fusing 5 Amps @ 120VAC	
Surge Suppression Relays 2 NO Contacts snubbed @ 0.1 uF, 150 ohm Varistor on AC line input	
Accessory Power 15-22 VDC, Unregulated, thermally	
Enclosure Non-metallic, NEMA 4X 5.9"W x 5.9"H x 3.5"D (150m	nmW x 150mmH x 90mmD)
Certifications	
CSA, CE, UL CSA tested to comply with UL	

