

ProMinent® ProMtrac Controller

Experts in Chem-Feed and Water Treatment

ProMinent®

Complete cooling tower controller solution

The ProMinent® ProMtrac is a water treatment controller that provides the latest in water management technology. With available options, the ProMtrac controller is designed to provide a high degree of control and flexibility with lost cost.

The ProMtrac is available as a stand-alone controller or complete packaged system suitable for use in any cooling system. It will control chemical & water costs by maximizing cooling tower cycles and accurately controlling feed pumps using pulse outputs instead of on/off control. Selectable options allow you to optimize the benefits of a low cost controller.

ProMinent® ProMtrac Cooling Tower Controller Packages come standard with *Concept^{PLUS} pumps.



ProMtrac controller package

Features and benefits

- Combined conductivity & temperature sensor
- Three digital pulse outputs for pumps
- Blowdown valve relay output
- 5-key universal keypad
- 2 line, 16 character backlit display
- Built-in diagnostics
- NEMA 4 X Enclosure
- 120 VAC, 60 Hz
- UL / CSA / CE certifications pending
- Web Browser
- LAN Accessible, Static IP or DHCP
- pH and ORP Control
- Dry contact alarm relay
- Packaged backplate system
- Single 4-20 mA conductivity output
(Options limited by controller configuration)



ProMtrac controller



*Concept^{PLUS}

Applications

- Cooling tower inhibitor
- Boiler feed applications
- General chem feed
- Municipal and industrial wastewater
- Water disinfection
- Biocide and inhibitor feed
- "Pump on a drum" applications

*Concept^{PLUS} pumps are standard on ProMtrac control packages. Other ProMinent pumps available upon request.

ProMinent® ProMtrac Controller

Experts in Chem-Feed and Water Treatment

ProMtrac options with technical information

ProMtrac Options	Rating—Detail	Notes
Analog - Digital I/O		
Conductivity Sensor	Auto ranging from 100uS to 10,000uS	Single point calibration, Temperature Compensated
Temperature Sensor	32F to 176F	Displayed as degrees F or C
pH Sensor (optional)	1—12pH	PHED 112SE sensor
ORP Sensor (optional)	0—500mV	RHEX-PT-SE sensor
4-20mA Output (optional)	Single DC Isolated, Loop Powered	Conductivity span only
Digital Inputs	2, 1 Water Meter, 1 Flow Switch	Fixed sample flow switch, user configurable water meter pulse or contact
Pulse relay outputs	3, 0-400 spm	Pump control
Alarm Relay (optional)	Dry Contact set, un-fused	Normally Closed Contact, open 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	
10Base T, TCP/IP Ethernet LAN (optional)	HTML, Telnet Micro Web Server with User definable IP address & port	User initiated updates

Controls		
Bleed Relay	ON/OFF control	Blowdown valve
Inhibitor Feed	User set, measure volume & pump on time	Four modes: bleed & feed, bleed then feed, volumetric on ppm setpoint, base
Oxidizing & non-oxidizing biocides	Timer based on 28 day schedule and/or Optional ORP based	One timed and one ORP based, or two timed feeds
pH control	Optional pH sensor	Selectable Acid or Caustic feed
Alarms—Feed Limit Timers	Minutes per Actuation & Day	User defined on Feed Limit

System		
Electrical	120 / 240VAC, 50/60 Hz	Switch Selectable
Blowdown valve Fusing	5 Amps @ 120VAC	Fused @ 5A.
Surge Suppression	Blowdown Relay N.O. Contacts snubbed @ 0.1uF	Controller Isolated from AC Line
Accessory Power	15-22VDC, Unregulated, thermally fused @ 200mA	
Enclosure	Non-Metallic, NEMA 4X, IP67	6.75"W x 6.5"H x 3.5"D

Certifications		
CSA: Pending	CSA tested to comply with CE (Pending)	CSA tested to comply with UL, (Pending)

ProMtrac Identcode

PRT-CTF-IN-TB-TB Conductivity Control, Selectable Inhibitor Feed & Dual Biocide Timers

Combination Conductivity Sensor includes a 3/4" SCH80 PVC Slip tee, thermal dispersion flow switch, dual 28 day biocide timers, and make-up meter input

PRT-CTF-IN-OX-TB Conductivity Control, Selectable Inhibitor Feed, ORP Control & Single Biocide Timer

Combination Conductivity Sensor includes a 3/4" SCH80 PVC Slip tee, thermal dispersion flow switch, ORP control with Feed Limit Timer, single 28 day biocide timer, and make-up meter input

PRT-CTF-IN-PH-TB Conductivity Control, Selectable Inhibitor Feed, pH Control & Single Biocide Timer

Combination Conductivity Sensor includes a 3/4" SCH80 PVC Slip tee, thermal dispersion flow switch, pH control with Feed Limit Timer, single 28 day biocide timer, and make-up meter input

CL 4-20 mA out on Conductivity*

Fully isolated output, loop powered

LB Web-based browser*

AR Alarm-Contact*

*select only one communication option, LB, CL, or AR
communication options cannot be combined.

ProMinent Fluid Controls, Inc. (US)

136 Industry Drive,
Pittsburgh, PA 15275-1014
Tel: (412) 787-2484
Fax: (412) 787-0704
eMail: sales@prominent.us
www.prominent.us

ProMinent Fluid Controls Ltd. (Canada)

490 Southgate Drive,
Guelph, ON N1G 4P5
Tel: 1-888-709-9933 | (519) 836-5692
Fax: (519) 836-5226
eMail: sales@prominent.ca
www.prominent.ca

ProMinent®