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 low 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.

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)

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.
ProMtrac options with technical information

<table>
<thead>
<tr>
<th>ProMtrac Options</th>
<th>Rating—Detail</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Analog - Digital I/O</strong></td>
<td></td>
<td></td>
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<tr>
<td>Conductivity Sensor</td>
<td>Auto ranging from 100μS to 10,000μS</td>
<td>Single point calibration, Temperature Compensated</td>
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<tr>
<td>Temperature Sensor</td>
<td>32°F to 116°F</td>
<td>Displayed as degrees F or C</td>
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<tr>
<td>pH Sensor (optional)</td>
<td>1—12pH</td>
<td>N/12SE sensor</td>
</tr>
<tr>
<td>ORP Sensor (optional)</td>
<td>0—500mV</td>
<td>RHEX-PT-SE sensor</td>
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<tr>
<td>4-20mA Output (optional)</td>
<td>Single DC Isolated, Loop Powered</td>
<td>Conductivity span only</td>
</tr>
<tr>
<td>Digital Inputs</td>
<td>3 - 1 Water Meter, 1 Flow Switch</td>
<td>Fixed sample flow switch, user configurable water meter pulse or contact</td>
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<tr>
<td>Pulse relay outputs</td>
<td>3, 0–400 spm</td>
<td>Pump control</td>
</tr>
<tr>
<td>Alarm relay (optional)</td>
<td>Dry Contact set, un-fused</td>
<td>Normally Closed Contact, open on alarm</td>
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</table>

**Communications User Interface**

- **Keypad—LCD**: 5 Key Tactile Feedback, Universal Characters
- **2 Line x 16 Character, Backlit**: User adjustable contrast
- **10Base T, TCP/IP Ethernet LAN (optional)**: HTML, Tehel Micro Web Server with User definable IP address & port

**Controls**

- **Bleed Relay**: ON/OFF control
- **Inhibitor Feed**: User set, measure volume & pump on time
- **Oxidizing & non-oxidizing biocides**: Timer based on 28 day schedule and/or Optional ORP based
- **pH control**: Optional pH sensor
- **Alarms—Feed Limit Timers**: Minutes per Actuation & Day

**System**

- **Electrical**: 120 / 240VAC, 50/60 Hz
- **Blowdown valve Fusing**: 5 Amps @ 120VAC
- **Surge Suppression**: Blowdown Relay N.O. Contacts unwrubbed @ 0.1uF
- **Accessory Power**: 15-22VDC, Unregulated, thermally fused @ 200mA
- **Enclosure**: Non-Metallic, NEMA 4X, IP67

**Certifications**

- **CSA**: Pending
- **System**: CSA tested to comply with CE (Pending)
- **Communications User Interface**: CSA tested to comply with UL, (Pending)

**ProMtrac Identcode**

- **PRT-CTF-IN-TB-TB**: Conductivity Control, Selectable Inhibitor Feed & Dual Biocide Timers
- **PRT-CTF-IN-OX-TB**: Conductivity Control, Selectable Inhibitor Feed, ORP Control & Single Biocide Timer
- **PRT-CTF-IN-PH-TB**: Conductivity Control, Selectable Inhibitor Feed, pH Control & Single Biocide Timer

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