

DCM 500 Controller

A Recreational and Attraction Water Chemistry Solution

The **ProMinent® DCM 500** controller is the perfect partner for monitoring and controlling water chemistry parameters and processes. The DCM 500's precision, flexibility and uncompromising quality represent a world-class solution to ensure a safe and healthy water experience for patrons.



Application Specific Markets

- Swimming pools
- Therapy pools
- Hot tubs
- Water parks
- Splash pads
- Amusement Park Attractions
- Zoos and Aquariums

Features & Benefits

- Proprietary sensor technology
- Oxidant specific sensor
- Combined chlorine control¹
- Simultaneous Chlorine/ORP control
- Eco! mode
- VFD control
- Real-time corrosion & calcification monitoring and alarm²
- Loading compensation via true proportional control
- Hydraulically advanced flowcell assembly
- Automatic discrete control and flow adjustments of chemical dosing pump³
- Capable of controlling two bodies of water⁴
- Trackster™ auto poll, data logging, graphing and report building software
- Standard web-based real-time monitor and control via smart phone, iPad or tablet device



Notes:

- 1 Requires optional total chlorine probe
- 2 Requires optional corrosion and scaling probes
- 3 When used with ProMinent dosing pumps
- 4 Optional

DCM 500 Controller

Specifications

Specifications		Details	
Operator Interface			
Remote		Fully interactive Ethernet TCP/IP graphical interface with security access codes	
Local		2 line, 12 character LCD display, 2 LEDs, 5 buttons	
Sensors			
Included Sensors		pH, ORP, Temperature	
Optional Sensors		Second body of water set of sensors pH + ORP / Free Cl Total / Combined Chlorine, Chlorine for "salt" pools, Chlorine for stabilized pools, Conductivity, Turbidity, Bromine, Ozone, Chlorine Dioxide, Chlorite, Hydrogen Peroxide, Feed Verification, Corrosion, Calcification, Free Chlorine	
Field Upgrades		Sensor input modules are available for field upgrades.	
Inputs			
Digital Inputs		8, (7 fully configurable)	
Analog Inputs		8 (configurable options) Example: 2 Cond, 2 Temp, 1 pH, 1 ORP, 1 FAC, 1 TRC	
Outputs			
Control Relays		5 (fully assignable) for: 1. Acid 2. Oxidant 3. Chlorine Boost / Caustic Feed 4. Probe Wash / Alarm 5. Filter Aid / Flow switch test & verify Interlocked with sample and recirc flow when used for chemical feed.	
Digital Outputs		4 (fully assignable as dry contact sets or variable frequency pump) for: 1. UV 2. Pump / VFD Control 3. Chlorine / Ozone Generator 4. Alarm / Eco! Mode mode for Recirc Pump Base feed available if sensor disconnected	
Analog Outputs		2 (isolated, 4-20mA)	
Control			
	On/Off ORP assisting Residual P/PI/PID intelligent control Eco! Mode Event Timers	UV Boost / VFD Control Chlorine Boost / Ozone Control Flow Restored delay (adjustable) Emergency Off for Recirculation Pump Autofill Chem Feed Verification (optional)	
Communication			
	HTML server on board (standard) 10Base T, TCP/IP Ethernet, Wireless EVDO Cellular, Smartphone / iPad HTML, Micro Web Server with user definable IP address		
Security			
	Local and remote access protected by access codes		
System			
Power	120 or 230 VAC, 60/50 Hz, 5A/3A, single phase only		
Fusing	5 amps @ 120 VAC or 2.5 Amps @ 230 VAC		
Surge Suppression	Relay 2-5 N.O. contacts snubbed @ 0.1 uF, 150 ohm		
Accessory Power	15-22 VDC, Unregulated, Thermally Fused @ 50 mA		
Enclosure	Non-metallic, NEMA 4X, 7.5" x 11.3" x 5.5" (WxHxD)		
Convenience	Save and restore of "last known good" parameters		
	Multiple pre-loaded configurations and browser views		
Warranty			
	5 years on electronics 2 years on ORP, pH sensors 1 year on all other parts		