

DCM 5 Series Controller

A Recreational and Attraction Water Chemistry Solution

The ProMinent® DCM 5 Series controller is the perfect partner for monitoring and controlling water chemistry parameters and processes. The DCM 5 Series 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 (optional)
- 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 network-enabled PC, 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

Ordering Information

- **DCM 500** - Controller package for pH, ORP and Temp (P/N: 7761461)
- **DCM 501** - Controller package for pH, ORP and PPM on non-stabilized (CYA) water (P/N: 7761462)
- **DCM 502** - Controller package for pH, ORP, PPM and Combined PPM on non-stabilized (CYA) water (P/N: 7761463)
- **DCM 503** - Controller package for pH, ORP and PPM with CYA stabilized water (P/N: 7761464)
- **DCM 5** - Complete 2-Pool System, with 2 Separate Sample Modules, including pH, ORP and Temp Sensors only 1 temp sensor input on DCM 500! Expansion board needed for second temp input (Contact factory for configuration)

DCM 5 Series 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, 5 buttons, 2 LEDs: Steady Blue = "OK", Flashing Red = "Alarm"												
Sensors													
Included Sensors	pH, ORP, Temperature												
Optional Sensors	Free Chlorine, Total Chlorine, Calculated Combined Chlorine, Salt Generated Free Chlorine, Stabilized Chlorine, Conductivity, Bromine, Feed Verification, Corrosion, Calcification, Flow Rate, Water Level. Second body of water set of sensors: pH + ORP, Temperature												
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: <table> <tr> <td>1. Acid</td><td>5. Filter Aid / Flow switch test & verify</td></tr> <tr> <td>2. Oxidant</td><td>6. Auto Fill</td></tr> <tr> <td>3. Chlorine Boost / Caustic Feed</td><td>7. Heater Control</td></tr> <tr> <td>4. Probe Wash / Alarm</td><td>8. UV Control</td></tr> </table> (Interlocked with sample and recirc flow when used for chemical feed.)	1. Acid	5. Filter Aid / Flow switch test & verify	2. Oxidant	6. Auto Fill	3. Chlorine Boost / Caustic Feed	7. Heater Control	4. Probe Wash / Alarm	8. UV Control				
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Digital Outputs	4 (fully assignable as dry contact sets or variable frequency pump) for: <ol style="list-style-type: none"> 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 (optional isolated, 4-20mA)												
Control													
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Communication													
	HTML server on board (standard) 10Base T, TCP/IP Ethernet, Optional Wireless EVDO Cellular, Smartphone / iPad HTML, Micro Web Server with DHCP or 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, 14" x 9" x 4.5" (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												