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.*

Features & Benefits

- Proprietary sensor technology
- Oxidant specific sensor
- Combined chlorine control[1]
- Simultaneous Chlorine/ORP control
- Eco! mode
- VFD control (optional)
- Real-time corrosion & calcification monitoring and alarm[2]
- Loading compensation via true proportional control
- Hydraulically advanced flowcell assembly
- Automatic discrete control and flow adjustments of chemical dosing pump[3]
- Capable of interface and control of UV systems via ProMinent's proprietary chlorine probes and real time Combined Chlorine readings
- 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

Applications

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

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)

NSF®
Certified to
NSF/ANSI Standard 50

| Metering Pumps | Process Instrumentation | Engineered Metering Systems |

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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:	
	1. Acid 2. Oxidant 3. Chlorine Boost / Caustic Feed 4. Probe Wash / Alarm	5. Filter Aid / Flow switch test & verify 6. Auto Fill 7. Heater Control 8. UV Control
	(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 (optional isolated, 4-20mA)	
Control		
	On/Off ORP assisting Residual P/PI/PID 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) Pulsed Pump Speed
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	