DCM 5 Series Controller

Stay Connected and Stay in Control of Your Aquatics Facility!

*The **ProMinent® DCM 5 Series** controller is the perfect partner for remote monitoring and controlling water parameters and processes. The **DCM 5 Series** precision, flexibility and uncompromising quality represent a world-class IIoT solution to ensure a safe and healthy water experience for your customers and peace of mind for you.*

Features & Benefits

Stay Connected
- Receive email and text alarms
- Make changes from your smartphone, tablet or computer
- No apps required to connect and control
- Automatic emailing of data logs
- WiFi, RS485, Modbus, BACnet and 4G capable

Stay in Control
- Monitor and control
  - Combined chlorine
  - UV systems
  - VFDs
- Precision chemical feed
  - Proportional and PID control strategies
  - Control output of ProMinent pumps

Stay Safe
- Configurable digital interlocking to flowmeter and circ pump
- 29 discrete assignable passwords at three access tiers
- Simultaneous monitoring and control of ORP and PPM

World-Class Accuracy
- pH sensor accurate to 0.04 SU per NSF
- PPM sensor compliant to USEPA 334.0

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

Ordering Information
- **DCM 510** - pH, ORP and Temp **(P/N: 1080771)**
- **DCM 511** - pH, ORP and PPM on non-stabilized (CYA) water **(P/N: 1080772)**
- **DCM 512** - pH, ORP, Free, Total and Combined Chlorine on non-stabilized (CYA) water **(P/N: 1080773)**
- **DCM 513** - pH, ORP and PPM on CYA stabilized water **(P/N: 1080774)**

NSF
Certified to
NSF/ANSI Standard 50

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DCM 5 Series Controller

Specifications

Operator Interface		
Remote	Fully interactive Ethernet TCP/IP graphical interface with security access codes	
Local	2 line, 16 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, Flow Rate, Water Level	
Field Upgrades	Sensor input modules are available for field upgrades.	

Inputs		
Digital Inputs	8, (7 Fully Configurable)	
Analog Inputs	7 Standard (Configurable Options) + 4 Optional (additional Temp, 4-20mA and 2 corrosion	Example: 1 Cond, 1 Temp, 1 pH, 1 ORP, 1 FAC, 1 TRC, 1 4-20mA Flow, 2 Corrosion

Outputs		
Control Relays	5 (Fully Assignable)	
	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
	Interlocked with sample and recirc flow when used for chemical feed.	
Digital Outputs	4 (Fully assignable as dry contact sets or variable frequency pump)	
	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	Chlorine boost / Ozone control
	ORP assisting residual	Flow restored delayed (adjustable)
	P/PI/PID	Emergency Off for recirculation pump
	Eco! Mode	Autofill
	Event timers	Chemical feed verification (optional)
	UV boost / VFD control	Pulsed pump speed

Communication		
	HTML server on board (standard)	
	10Base T, TCP/IP Ethernet ,Optional Wireless 3G 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 / 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	

Certifications		
	NSF/ANSI/CAN Standard 50	
	UL 61010-1	
	CSA CAN/CSA-22.2 No. 61010-1-12	

Warranty		
	5 years on electronics	
	2 years on ORP, pH sensors	
	1 year on all other parts	