## **DCM 5 Series Controller**

**Upgraded** 

An Ultimate Water Chemistry Solution for Aquatics Applications



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.

#### **Features & Benefits**

- Proprietary sensor technology
- Oxidant specific sensor
- Combined chlorine control<sup>1</sup>
- Simultaneous chlorine/ORP control
- Built-in WiFi router NEW!
- VFD control<sup>2</sup> NEW!
- Loading compensation via true proportional control
- Hydraulically advanced flowcell assembly
- Automatic discrete control and flow adjustments of chemical dosing pump<sup>3</sup>
- Capable of interface and control of UV systems via ProMinent's proprietary chlorine probes and real time combined chlorine readings
- Ability for tiered alarm notification via text/email, graphing data, and daily summary emails all standard NEW!
- Intuitive and easy to use remote interface with device recognition for easy operation on tablets, smart phones, and computers NEW!

- 1 Requires optional total chlorine probe
- 2 Optional (requires additional internal adapter card)
- 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: 1080771)
- DCM 501 Controller package for pH, ORP and PPM on non-stabilized (CYA) water (P/N: 1080772)
- DCM 502 Controller package for pH, ORP, Free, Total and Combined Chlorine on non-stabilized (CYA) water (P/N: 1080773)
- DCM 503 Controller package for pH, ORP and PPM with CYA stabilized water (P/N: 1080774)





# **DCM 5 Series Controller**

### **Specifications**

Remote	Eully interactive athernet and WiFi TCP/IP graphical interface with a	acurity access codes	
nemote	Fully interactive ethernet and WiFi TCP/IP graphical interface with security access codes  4 line - 20 character OLED display, 12 buttons, multicolor status LED: Steady BLUE = "OK", Flashing RED = "ALARM", Steady RED = (Stopped), Mul output LEDs indicate relay output status as feeding/ off/ alarmed/ or stopped. Ethernet and WiFi status LEDs		
Local			
ensors	Toutput LED's indicate relay output status as feeding/ on/ alarmed/ or	stopped. Ethernet and Wirl status LEDs	
Included Sensors	pH, ORP, Temperature		
	pri, Ohr, retriperature  I rree chlorine, total chlorine, calculated combined chlorine, salt generated free chlorine, stabilized chlorine, conductivity, bromine, feed verification, corrosion		
Optional Sensors	flow rate, water level, UV Intensity, calculated LSI/Ryznar water totalizer		
Field Upgrades	Sensors and input modules are available for field upgrades		
puts			
Digital Inputs	8, (7 fully configurable) Examples: Sample Flow Switch, Return Line	e Flow Switch, Digital pulse flow meter(s), auto-fill float switch, external interlocks	
<u> </u>	Up to 10 standard (configurable options) + 4 virtual (LSI, Combined	Example: 1 Cond, Sample Temp, pH, ORP, Free Cl, Total Cl, Comb. Cl, UV intensity[-	
Analog Inputs	Chlorine, GPM, etc.)	20mA], room temperature, 2 additional gpm [4-20mA] inputs	
	oniornio, ar m, oto.)	2011/13, FOOTH Comportation, 2 additional appril [1 2011/13] impaid	
utputs			
Control Relays	9 total: 2 AC line voltage, 3 Dry contact (AC or DC), 4 DC 24V (all fu	· · · · · · · · · · · · · · · · · · ·	
	1. Acid Feed	6. UV Pause	
	2. Oxidant Feed	7. Temperature control or Fireman	
	3. Chlorine boost / caustic feed	8. UV Chloramine control	
	4. CO2 feed	9. DCS/BMS OK or Alarm	
	5. Auto Fill / alarm		
	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, salt Cl2 generator or Heater control		
	2. PID Acid Pump / VFD control		
	3. Chlorine PID Control/ UV Pause		
	4. DCS BMS OK or Alarm / Eco! mode mode for recirc pump		
	Base feed available if sensor disconnected		
Analog Outputs	Optional 2 isolated, 4-20mA		
ontrol			
	On/off	Chlorine boost / ozone control	
	ORP assisting residual	Flow restored delayed (adjustable)	
	P/PI/PID	Emergency "off" for recirculation pump	
	Event timers	Autofill	
	UV boost / VFD control	Chemical feed verification (optional)	
	Chemical feed stop during Backwash or Bump	Pulsed pump speed	
ommunication	Towns and the second se		
	HTML server on board (standard)		
	10Base T, TCP/IP ethernet, optional wireless 3G cellular		
	HTML, micro web server with DHCP or user definable IP address		
	Standard built-in WiFi router (smartphone/ iPad/ Tablet)		
	USB port for Datalog extraction, configuration saving, configuration	uploading, & field software updates	
ecurity			
	Local and remote access protected by access codes (Up to 29 unique users and passwords with 3 access levels)		
YSTEM			
Power	90-253VAC, 50/60Hz, 7.9Amp, single phase		
Fusing	Outputs fused @ 6.3 Amps total @ 120/250 VAC, Internal circuits fused at 1.6Amps		
Surge Suppression	Integral Surge Suppression - Relays 1-5		
Accessory Power	15VDC Thermally fused @ 60 mA, NAMUR inputs U-V thermally fused at 20mA		
Enclosure	Non-metallic, NEMA 4X		
Panel Dims.	18" x 30" x 6.5" (WxHxD)		
Convenience	Field Software upgrades via USB flash drive, Configuration cloning via Flash drive		
arranty			
	5 years on electronics		
	2 years on ORP, pH sensors		
	1 year on all other parts		

