

# DCM 5 Series Controller

## An Ultimate Water Chemistry Solution for Aquatics Applications



The ProMinent DCM 5 Series controller is the perfect partner for remote monitoring and controlling water parameters and processes.

### Features and 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
  1. Combined chlorine
  2. UV systems
  3. VFDs
- Precision chemical feed
  1. Proportional and PID control strategies
  2. 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



# DCM 5 Series Controller

## An Ultimate Water Chemistry Solution for Aquatics Applications

### Operator Interface

Remote	Fully interactive Ethernet TCP/IP graphical interface with security access codes
Local	4 line - 20 character OLED display, 12 buttons, multicolor status LED: Steady BLUE = "OK", Flashing RED = "ALARM", Steady RED = (Stopped), Multicolor output LEDs indicate relay output status as feeding/ off/ alarmed/ or stopped. Ethernet and WIFI status LEDs

### 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, UV Intensity, calculated LSI/Ryznar water totalizer
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, 4-20 mA and 2 Corrosion) Examples: 1 Cond, 1 Temp, 1 pH, 1 ORP, 1 FAC, 1 TRC, 1 4-20 mA and 2 Corrosion

### Outputs

Control Relays	5 (fully assignable) <ol style="list-style-type: none"> <li>1. Acid</li> <li>2. Oxidant</li> <li>3. Chlorine boost / Caustic feed</li> <li>4. Probe Wash / Alarm</li> <li>5. Filter Aid / Flow switch test &amp; verify</li> <li>6. Auto fill</li> <li>7. Heater control</li> <li>8. UV control</li> </ol> (Interlocked with sample and recirc flow when used for chemical feed)
----------------	--

Digital Outputs	4 (fully assignable as dry contact sets or variable frequency pump) <ol style="list-style-type: none"> <li>1. UV</li> <li>2. Pump / VFD control</li> <li>3. Chlorine / Ozone generator</li> <li>4. Alarm/ Eco! mode for recirc pump</li> </ol> Base feed available if sensor disconnected
-----------------	---

Analog Outputs	2 (optional isolated, 4-20 mA)
----------------	--------------------------------

### Control

On/Off  
 ORP assisting residual  
 P/PID/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

# DCM 5 Series Controller

## An Ultimate Water Chemistry Solution for Aquatics Applications

<b>Communication</b>	HTML server on board (standard) 10 base T, TCP/IP Ethernet, Optional wireless 3G cellular, Smartphone / iPad HTML, micro web server with DHCP or user definable IP address
<b>Security</b>	Local and remote access protected by access codes
<b>System</b>	
Power	120 or 230 VAC, 60/50 Hz, 5 A/3 A, single phase only
Fusing	5 A at 120 VAC or 2.5 A at 230 VAC
Surge Suppression	Relay 2-5 N.O. contacts snubbed at 0.1 $\mu$ F, 150 $\Omega$
Accessory Power	15-22 VDC, Unregulated, Thermally fused at 50 mA
Enclosure	Non-metallic, NEMA 4X, 7.5"x11.3" x 5.5" (WxHxD)
Convenience	NSF/ANSI/CAN Standard 50 UL 61010-1 CSA CAN/CSA-22.2 No. 61010-1-12
<b>Warranty</b>	5 years on electronics 2 years on ORP, pH sensors 1 year on all other parts

## Ordering Information

		Order no.
DCM 510	Controller package for pH, ORP and Temp	1080771
DCM 511	Controller package for pH, ORP and PPM on non-stabilized (CYA) water	1080772
DCM 512	Controller package for pH, ORP, PPM and Combined PPM on non-stabilized (CYA) water	1080773
DCM 513	Controller package for pH, ORP and PPM with CYA stabilized water	1080774

DCM 511 For Indoor Pool and 2 Spas  
DCM 513 For Outdoor Pool