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 control¹
- · Simultaneous chlorine/ORP control
- Built-in WiFi router NEW!
- VFD control² NEW!
- Loading compensation via true proportional control
- Hydraulically advanced flowcell assembly
- Automatic discrete control and flow adjustments of chemical dosing pump³
- 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!
- BMS communication abilities with Modbus RTU & TCP as well as BACnet IP & MSTP²

Applications

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

Ordering Information

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





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Specifications

Operator Interfac		
Remote	Fully interactive ethernet and WiFi 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), Multicol output LEDs indicate relay output status as feeding/ off/ alarmed/ or stopped. Ethernet and WiFi status LEDs	
Sensors	Journal LEDS indicate relay output status as reeding/ on/ alarmed/ or	Stopped. Ethernet and Wirt Status LEDS
Included Sensors	nH ODD Temperature	
	pH, ORP, Temperature Free 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	
nputs		
Digital Inputs	8, (7 fully configurable) Examples: Sample Flow Switch, Return Line 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[4]
Analog Inputs	Chlorine, GPM, etc.)	20mA], room temperature, 2 additional gpm [4-20mA] inputs
Viitarita		
Outputs	0.4-1-1-0.40 Para valla va 0. Day varia -1-(40 av 0.0) 4.00 0.0) (4.116)	His construction and the
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
	Oxidant Feed Chlorine boost / caustic feed	7. Temperature control or Fireman 8. UV Chloramine control
	4. CO2 feed	9. DCS/BMS OK or Alarm
	5. Auto Fill / alarm	3. DOGIDNO OR OF AIAM
	Interlocked with sample and recirc flow when used for chemical feed	
Digital Outputs	4 (Fully assignable as dry contact sets or variable frequency pump)	
Digital Outputs	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	
Control		
	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
Communication		
	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	upioading, & πeid soπware updates
Security	The selection of the second se	was used and recovered with O cooper levels
WOTELL	Local and remote access protected by access codes (Up to 29 unique users and passwords with 3 access levels)	
SYSTEM	100 050VAO 50/00Hz 7.0Amm st. 1. 1	
Power	90-253VAC, 50/60Hz, 7.9Amp, single phase Outputs fused @ 6.3 Amps total @ 120/250 VAC Internal circuits fused at 1.6Amps	
Fusing	Outputs fused @ 6.3 Amps total @ 120/250 VAC, Internal circuits fused at 1.6Amps Integral Surge Suppression - Relays 1-5	
Surge Suppression 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	
varrantv		
varranty	5 years on electronics	
Varranty	5 years on electronics 2 years on ORP, pH sensors	

