DCM 3 Series Controller

Stay Connected and In Control of Your Aquatics Facility!

*The **ProMinent DCM 3 Series** controller is the perfect partner for remote monitoring and controlling water chemistry and processes in pools, spas, hotels, motels, and condos. The **DCM 3 Series** precision 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, Ethernet, and 4G capable

Stay in Control
- Monitor flow rate
- Precision chemical feed
    - Proportional control strategies
    - Control output of ProMinent pumps

Stay Safe
- Configurable digital interlocking to flowmeter and circ pump
- 8 discrete assignable passwords at three access tiers

World-Class Accuracy
- pH sensor accurate to 0.04 SU per NSF

Applications
- Residential and Commercial swimming pools
- Therapy pools
- Spray pads
- Hot tubs
- Fountains

Ordering Information
- **DCM300** - controller package for pH, ORP and temp. **(P/N: 1107687)**
- **DCM300 Salt** - Salt pool controller package for pH, gold ORP, and temp **(P/N: 1107688)**
- **DCM300 Salt_{Plus}** - Salt pool controller package for pH, gold ORP, conductivity/TDS, and temp. **(P/N: 1107689)**
- **DCM3-Cl** - True PPM controller package for pH, free chlorine PPM, and temp. **(P/N: 1107690)**
- **DCM3-Cl_{Plus}** - True PPM controller package for pH, free chlorine PPM, conductivity/TDS, and temp. **(P/N:1107691)**
- **DCM3-ClORP** - True PPM controller package for pH, ORP, PPM, and temp. **(P/N:1118932)**

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Specifications

Operator Interface	
Remote	Fully interactive Ethernet and WiFi TCP/IP graphical interface with multi-level security access codes
Local	4 line - 20 character OLED display, 12 buttons, multicolor controller status LED, multicolor output LEDs indicate relay output status, Ethernet, and Wifi status LEDs

Sensors	
Included sensors	pH, (ORP and/or PPM), temperature
Optional sensors	Conductivity, feed verification, flow rate, water level, calculated LSI/Ryznar, water totalizer

Inputs		
Digital inputs	6, (5 fully configurable) Examples: sample flow switch, return line low switch, digital pulse flow meter(s), auto-fill float switch, external interlocks	
Analog inputs	Up to 5 standard (configurable options) + 9 virtual (LSI, flow rate, etc.)	Example: conductivity, pH, [ORP and/or free chlorine], sample temp, flow via pulse input

Outputs	
Control relays	5 total: 2 AC line voltage, 3 dry contact (AC or DC), all are fully assignable
	1. Acid feed
	2. Oxidant feed
	3. Autofill
	4. CO2 feed
	5. Alarm
	*Interlocked with sample flow when used for chemical feed

Control		
	On/off	Chem feed stop during bump or backwash
	Time modulation (proportional)	Flow restored delay (adjustable)
	Time cycling	Blocking and lockout for added control
	pH	
	ORP and/or free chlorine	
	Temperature	
	Event timers - for alternate oxidant setpoint or timed feed of chemical (filter aid)	
	Autofill	

Communication	
	10Base T, TCP/IP ethernet, optional wireless 4G 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

Security	
	Local and remote access protected by access codes (Up to 8 unique users and passwords with 3 access levels)

System	
Power	120 VAC, 50/60Hz, 7.9 Amp, single phase
Fusing	Outputs fused @ 6.3 Amps total @ 120 VAC, Internal circuits fused at 1.6 Amps
Surge suppression	Integral surge suppression - Relays 1-5
Accessory power	15VDC thermally fused at 60mA. (no NAMUR inputs)
Enclosure	Non-metallic, NEMA 4X, IP65
Panel dimensions	18" x 30" x 6.5" (WxHxD)
Convenience	Field software upgrades via USB flash drive, configuration cloning via flash drive

Certifications	
	NSF/ANSI/CAN Standard 50
	MET to 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