

# Dulcomarin II Pool Controller

## Multi-variable disinfection controller

The ProMinent® Dulcomarin II Pool Controller technology is revolutionizing measuring, control and metering technology in pools, water parks and aquariums. The decentralized modular concept with one single central unit controls sensors and chemical feeders for up to 16 bodies of water.

## Application Specific Solutions

- Swimming pools
- Water parks
- Spray pads
- Zoos and Aquariums



## Features & Benefits

- Compact and configurable for any application.
- Integrated videographic recorder
- Large VGA color display
- Logbook function saves all events such as calibration data, error messages etc.
- Embedded web server – view measurement data from any PC with a standard web browser
- Maintenance/error messages by SMS or e-mail
- Decentralized modular design - control of up to 16 bodies of water
- Easy on-site calibration
- Access Codes to prevent unauthorized adjustment
- CANopen BUS sensor technology
- pH, ORP, Temperature, Free Chlorine and Total Chlorine control
- Calculated combined chlorine reading

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## Specifications

<b>Measurement parameters</b> (per system, up to 16 bodies of water)	pH	1 to 14
	Redox/ORP	-1200 to +1200 mV
	free chlorine	0.01 to 100 ppm
	total chlorine	0.01 to 10 ppm (optional)
	combined chlorine as differential measurement	0.01 to 2 ppm (optional)
	temperature	-4°F(-20°C) to +302°F+150°C
<b>Error of measurement</b>	pH, chlorine and ORP: max. $\pm 0.5$ % of the measuring scale range (at 77°F / 25 °C) Temperature: max. $\pm 0.5$ °C of the measuring range (at 77°F / 25 °C)	
<b>Measurement inputs</b>	pH and Redox/ORP via terminal mV chlorine via CANopen bus connection of sensor modules and actuator modules via CANopen bus	
<b>Control modes</b>	P/PI/PID control, intelligent control and ORP	
<b>Control</b>	Bidirectional control for pH (acid/alkali), unidirectional control for disinfectants	
<b>EcoMode</b>	EcoMode - Energy saving mode for non peak hours, control parameters are optimized for non peak hours.	
<b>Digital inputs</b> (per system)	6 x 16 potential-free inputs (sample water, pause, 3 pump fault relays, disturbance variable, change over of parameter set, contact water meter)	
<b>Analog inputs</b> (per system)	3 x 16 4-20 mA Inputs	2 x 16 Digital Inputs
<b>Signal current outputs</b> (per system)	4 x 0/4-20 mA (for each measured variable galvanically separated), max. load 600 $\Omega$ range adjustable	
	3 x 16 Digital Inputs	3 x 16 Pulse Inputs
<b>Alarm relay</b>	250 V~, 3 A	
<b>Interfaces</b>	Local Area Network (LAN), SD expansion slot (for SD or MMC cards)	
<b>Communication</b>	Embedded web server or embedded OPC server	
<b>Electrical connection</b>	85 to 265 V~, 50/60 Hz	
<b>Ambient temperature</b>	23°F to 113°F (-5°C to 45°C)	
<b>Storage temperature</b>	14°F to 158°F (-10 to 70 °C)	
<b>System of protection</b>	IP 65 / NEMA 4x	
<b>Dimensions of central unit</b>	13.46" x 8.94" x 3.07" (342 x 227 x 78 mm) (WxHxD)	