Dulcomarin II Pool Controller

Multi-variable disinfection controller

The DULCOMETER® 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

ProMinent®

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Specifications

Measurement parameters	pH	1 to 14
	Redox/ORP	-1200 to +1200 mV
(per system,	free chlorine	0.01 to 100 ppm
up to 16 bodies of water)	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
Error of measurement	pH, chlorine and ORP: max. ±0.5 % of the measuring scale range (at 77°F / 25 °C) Temperature: max. ±0.5 °C of the measuring range (at 77°F / 25 °C)	
Measurement inputs	pH and Redox/ORP via terminal mV chlorine via CANopen bus connection of sensor modules and actuator modules via CANopen bus	
Control modes	P/PI/PID control, intelligent control and ORP	
Control	Bidirectional control for pH (acid/alkali), unidirectional control for disinfectants	
EcoMode	EcoMode - Energy saving mode for non peak hours, control parameters are optimized for non peak hours.	
Digital inputs (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)	
Analog inputs (per system)	3 x16 4-20 mA Inputs	2 x 16 Digital Inputs
Signal current outputs (per system)	4 x 0/4-20 mA (for each measured variable galvanically separated), max. load 600 Ω range adjustable 3 x 16 Digital Inputs	3 x 16 Pulse Inputs
Alarm relay	250 V~, 3 A	
Interfaces	Local Area Network (LAN), SD expansion slot (for SD or MMC cards)	
Communication	Embedded web server or embedded OPC server	
Electrical connection	85 to 265 V~, 50/60 Hz	
Ambient temperature	23°F to 113°F (-5°C to 45°C)	
Storage temperature	14°F to 158°F (-10 to 70 °C)	
System of protection	IP 65 / NEMA 4x	
Dimensions of central unit	13.46" x 8.94" x 3.07" (342 x 227 x 78 mm) (WxHxD)	

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