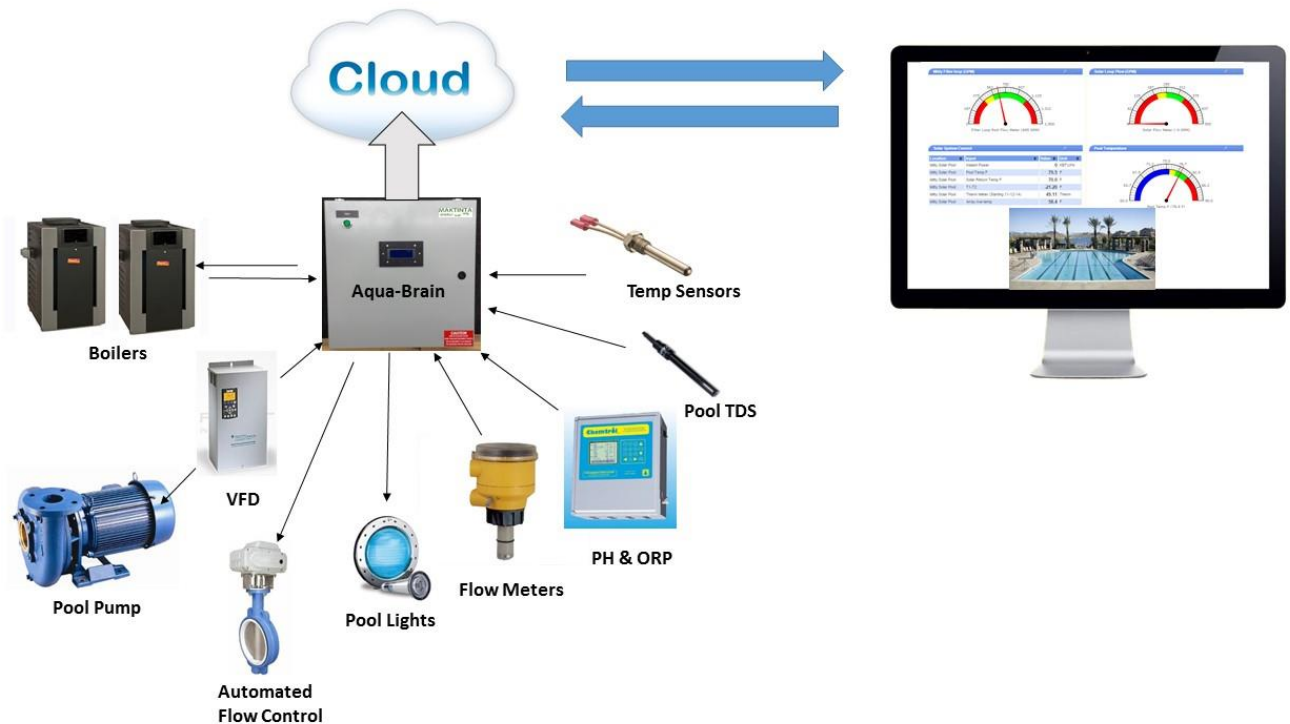


AQUA-BRAIN POOL MANAGEMENT SYSTEM

The Aqua-Brain is a powerful cloud based Pool Energy Management System that allows the operator to control / monitor all aspects of the pool from a smart device



Control

By far the most comprehensive Pool management system on the market, the Aqua-Brain allows you to put your pool on autopilot while controlling it from the comforts of your internet enabled device. The Aqua-Brain allows the user to easily:

- Set / adjust pool's pump speed
- Set / adjust pool temperature
- Set daily, weekly, monthly pump schedules to save energy and meet the pool's changing needs
- Set boilers in a lead lag fashion

Monitoring

Continuous monitoring of Pool's Chlorine, PH, and TDS levels as well as chemical levels in acid and Chlorine tanks. Pool temperature, boiler loop temperature, and boiler activity. Flow rates in all important loops like main filter loop and boiler loop & makeup water. Make up water consumption, and boiler BTU metering.

Online monitoring Dashboard



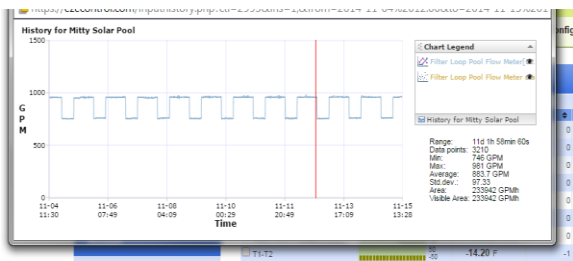
Custom dashboard keeps the operator informed and in control over pool

Automated reports



Automated periodic reports via email keeps all parties informed as for pool energy use and general conditions

Easy to Use Analytical Tools



Quick analytical tool allows an easy trouble shooting and verification of pool conditions

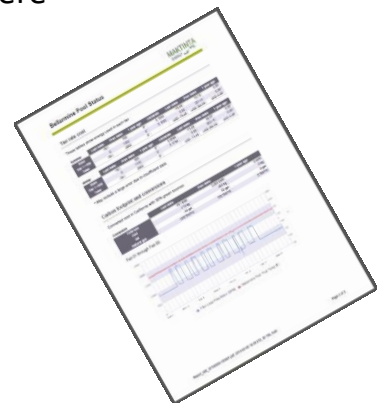
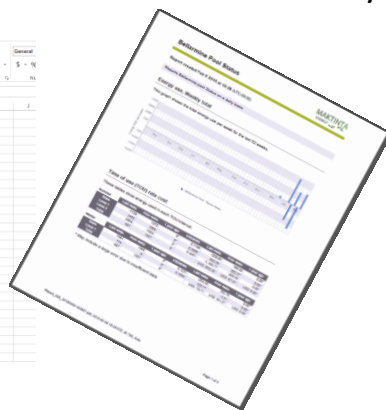
Easy Scheduling Module

The scheduling module displays 'Schedule display settings' for 'Competitive Water + PE'. It includes an 'Interval 1' section with 'Valid weekdays' (Mo Tu We Th Fr Sa Su) and checkboxes for each day. The 'Start time' is set to 05:30 and the 'Stop time' is set to 19:30.

Easy scheduling module allows for pump speeds, pool light and boiler scheduling to meet pools changing needs

Download Pool Data from Anywhere

The screenshot shows a spreadsheet with columns for 'Date', 'Time', 'Filter Loop Flow', 'Boiler Loop Flow', 'Pool Temp', 'Boiler Temp', 'Pool Pump Status', 'Valve', and 'RTU Status'. The data is organized into sections for different time intervals.



Data-logs parameters in 1 min to one hour intervals. Data is kept on the cloud for future analysis or confirmation for health department inspection or product warranty verification

Specifications

Specifications

Physical	20" x 20" x 9" in NEMA4 enclosure
Power	120VAC/ 240VAC 6 Amp
Weight	50 lbs
Ambient temp	32-120F
14 Inputs	Analog – 0-30V, 0-30mA, pulse, resistance Digital – dry contact Temp – 10K, 100K, RTD
14 Outputs	Two C form relays - 50V/ 2A 8 Dry contacts - 230VAC 3 Amp 4 Analog 4-20mA or 0-10V
Temp Sensors	Additional 12 MicroLAN temp sensors
Display	LCD display
Network	Standard Ethernet TP 10/100 RJ45, WiFi or GSM/3G
Modbus	RS485 @19200bps, Modbus RTU master
Data Logging	Individual log interval inputs 5sec
Input triggers	Up to 4 alarms / input with up to 4 actions (send message, control output)
Schedule	Up to 20 schedules
Timers	Up to 20 timers hourly, daily or monthly
Logic	Virtually unlimited



Controls	Control multiple circuits, pumps, VFD's, Servo valves, flow, boilers, solar system, valves Pool lights using analog or digital output
Monitor & Log	Pumps speed, pressure, flow, boiler operation & BTU metering , ORP, PH, TDS, chemical tanks fluid level, gas & electric metering and any device with analog or digital output
Automation	VFD Pump control, Boilers control with lead/lag option, and motorized valves
Applications	Commercial pools and commercial pools solar thermal systems