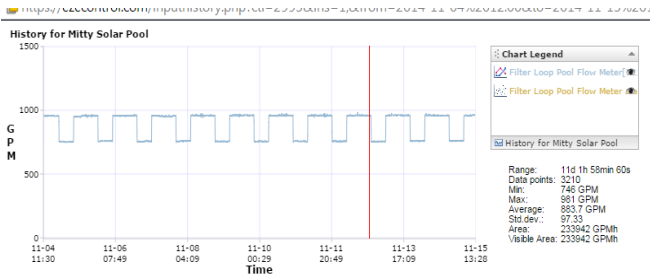# Energy Smart Controller

Features

The TEK commercial pool monitoring and control system gives you unprecedented remote control and access to your pool information. Allows control and scheduling of swimming pool systems with multiple pumps, heaters, solar arrays, and variable frequency drives (VFD) to ease management, reduce cost and maximize energy efficiency. Monitor and control pool parameters on any internet enabled device, including smart phones and tablets. Supports 24/7 e-mail alerts for system conditions based on user definable set points. Standard internal 24V power supply simplifies expanded poor instrumentation.

Custom dashboard to meet 24/7 customer monitoring requirements with access to system performance from any web browser, in real-time.
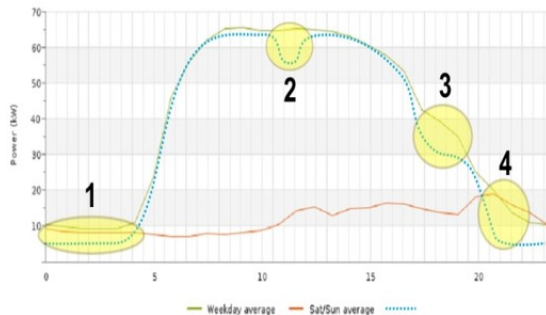

Continuous monitoring via system dashboard

Automatic data logging on secure cloud for future reference with easy access. Easy to use online plotting tools and multiple format downloads allow in depth analysis

Multiple system parameters data logging.

Average daily power profile Feb 10 to Mar 17

Automatic periodic reports generator, showing energy consumption and patterns over time

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

Sensors	Flow, pressure, temp, TDS, ORP, PH, humidity, fluids level, conductivity and more
Controls	Control and monitors multiple circuits, pumps, pressure, flows, Boilers, BTU metering , ORP, TDS, Chemical tanks fluid level, PH, Gas and Electric metering and Data logging
Automation	VFD Pump control, Boilers control with lead/lag option, virtually unlimited logic
Applications	Commercial pools and commercial pools solar thermal systems