



AQUATIC ECO-SYSTEMS™



POINT FOUR™ RIU3 REMOTE WATER MONITOR/CONTROLLER

PENTAIR AQUATIC ECO-SYSTEMS

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New for 2014, the POINT FOUR RIU3 (Remote Interface Unit) offers a host of features suited to our customers' detailed requirements for continuous monitoring & control of water parameters.

The RIU3 functions as a stand-alone field mounted transmitter/controller, or can be daisy chained to create a multi-linked network connection, supporting up to 99 units. An unlimited amount of multi-linked network connections can be made allowing for a scalable system from small hatchery operations to large RAS systems. Users can collect, manipulate and control all of their data via the POINT FOUR RIU3 Controller, POINT FOUR LC Touch Controller or using the POINT FOUR Sync HMI Software (windows based).

The RIU3 will accept multiple input types (4-20mA /0 -5 mV/ Modbus/RS485) and contains 2 SPDT 10amp relays which can be setup for up to six control blocks. These control blocks are configured directly via the keypad, or through a PC using a computer connection cable; allowing users to setup local control, configure alarm conditions or even perform PID function.

A key feature of the RIU3 is tank side probe calibration, which is easily performed using the weatherproof 4 button keypad. Probe calibration can now be done by just one operator, allowing the user to service the probe and adjust values all at the same probe location.

The advantage of the multi linked system of the RIU3, over a traditional layout, greatly reduces the need for both data and probe cable runs needed to transfer data from each device back to the main control unit. Only one cable is needed for the RIU3 to transfer the entire system data to the main controller - saving money on cabling and time for system installation. The modularity of this multi linked system also provides easy addition or removal of RIU3 units in the system.

Weatherproof Enclosure:
NEMA 4x
IP65 Rated

Easy to Read:
Large Font
Backlit Display

User Selectable Control:
Tank Side Sensor Calibration
Local Control Setup
Alarm Setpoint
PID Function

Multiple System
Configurations:
Single Unit Controller
or
Multi-linked Network
(up to 99 units)



2 Relay Outputs:
Alerting Alarm Conditions
via Light, Siren or SMS
and
Dosing Oxygen or
Controlling Blowers

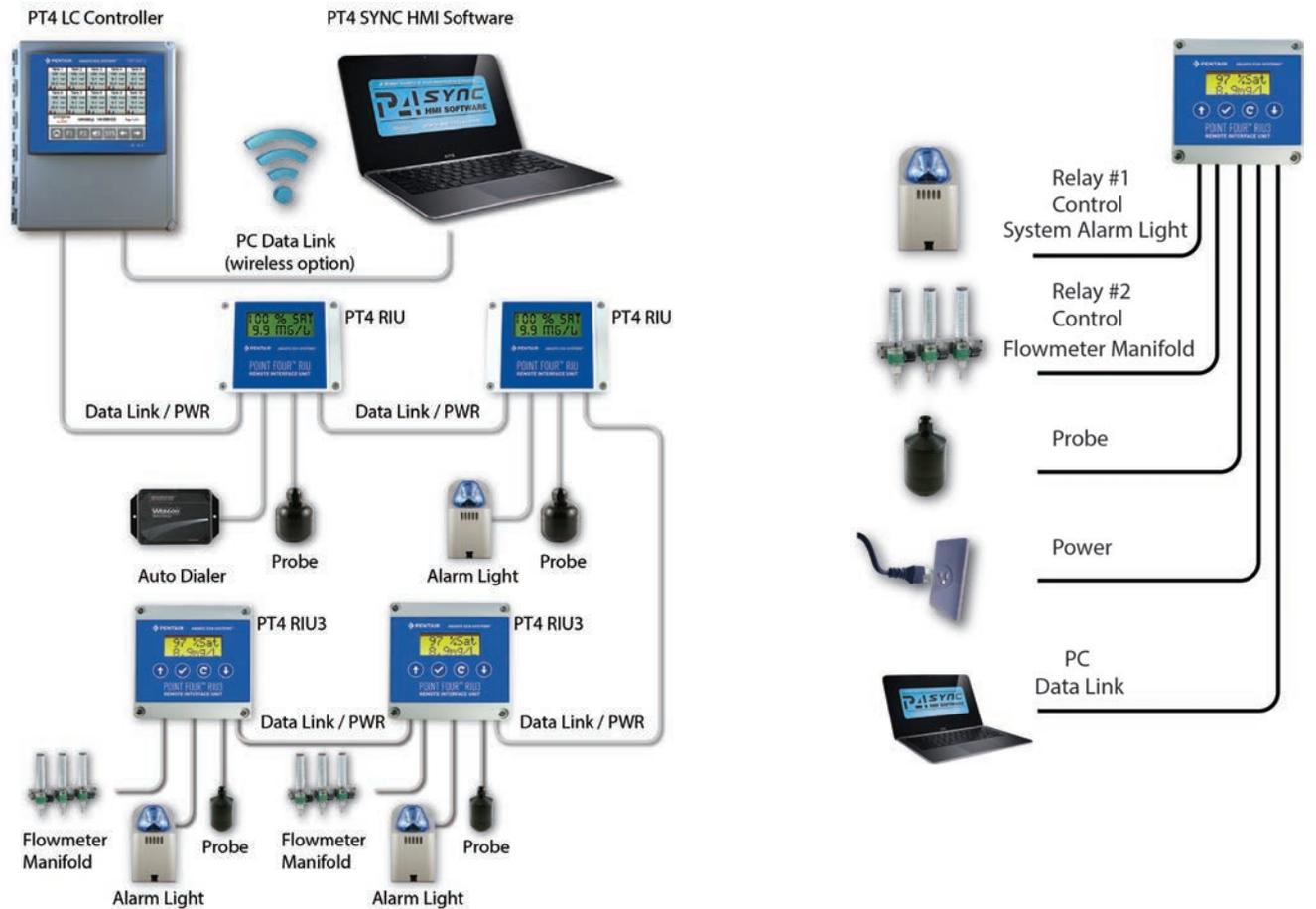
Various Sensor Input Types:
Oxygen
Temperature
Bp
pH/ORP
Salinity
TGP
Optical DO



SYSTEM CONFIGURATIONS

Multi-Linked Network

Single Unit Controller



SPECIFICATIONS

Power	12-24VDC, 120mA
Sensor Power	Onboard isolated 24VDC loop power supply (optional)
Input	1 Probe input (optically isolated) (4-20mA / 0 -5 V/ Modbus/RS485) & 1 Aux input (optically isolated) for Temp or BP
Display	8x2 Character, Large Font, LED Backlit
Output: Alarm	Two SPDT 10 Amp relay-user configurable, LCD/LED Alarm Indicator Modbus RTU RS485 communication port, Network addressable 1-99.
Control	Two relay outputs with selectable control band, ON/OFF or PID function
Environmental	NEMA 4X / IP65, Sealed Cable Grips
Temperature	-5 °C to +60 °C - Operation/Storage -10 °C to +60 °C - Storage
Relative Humidity	5% to 85% RH at up to +40 °C - Operation 5% to 40% RH above +40 °C up to +60 °C- Storage
Altitude	Up to 3,000 meters (10,000 feet) - Operation/Storage
Dimensions	125mm x 145mm x 75mm [4.9" x 5.7" x 3"]
Weight	457 grams [1 lbs]
Accessories	Wall mount bracket



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