

## PT4 ION CONTROLLER

The PT4 ION controller functions as a stand alone display / operator interface unit. Its main function is to read and display information transmitted on the ION databus as well as provide control information to the ROC10 card. The main controller has two communication ports that allow it to transfer data from the main databus to a PC, a touch panel display, or through satellite communication.

Dimensions (L x W x H): 200 mm (7.85") x 110 mm (4.33") x 61 mm (2.38")  
 Enclosure Rating: Nema 4X, IP66  
 Power Supply: 10.0 - 15.0 VDC, filtered and regulated  
 Current Requirements: 300 mA max. (including backlight on and wireless transmitter), 80 mA min.  
 Operating Temperature: -10 °C to 60 °C  
 Operating Humidity: < 70% relative humidity  
 Signal Input / Output: Two 2-wire RS485/232 COM ports, wireless card optional

## ROC10 (Relay Output Card)

The ROC10 functions as a "smart" output device. It is used as a 10 channel switch to control devices such as solenoid valves, alarms, autodialers, feeders, control pumps, lights, etc. Linking relays to the inputs can be performed via the main controller interface as well as via a PC. One ROC10 provides up to 10 relay outputs. Up to 5 ROC10 units can be linking to a single ION control unit, providing up to a total of 50 output combinations per controller unit.

Dimensions (L x W x H): 191 mm (7.55") x 100 mm (3.93") x 33 mm (1.3")  
 Mounting: DIN rail, or 4 mounting holes (requires weatherproof enclosure)  
 Power Supply: 12 VDC filtered and regulated at 500 mA  
 AUX Power Fuse Rating: 10A max at 12 VDC  
 Operating Temperature: -10°C to 60°C  
 Operating Humidity: < 70 % relative humidity  
 Signal Input: 2-wire RS485 communication



Control System Includes:

- flowmeters
- regulator
- relays

## SIC5 (Signal Isolation Card)

Dimensions (L x W x H): 147 mm (5.78") x 100 mm (3.93") x 33 mm (1.3")  
 Mounting: DIN rail, or 4 mounting holes (requires weatherproof enclosure)  
 Power Supply: 12 VDC filtered and regulated at 500 mA  
 Operating Temperature: -10°C to 60°C  
 Operating Humidity: < 70 % relative humidity  
 Signal Input: Five RS485 inputs, isolated, 100mA probe power max.  
 Signal Output: 2-wire RS485 communication

## RADIO TRANSMITTER

Radio Frequency: 900 MHz or 2.4 GHz FHSS (Frequency Hoping Spread Spectrum)  
 Range: Typical up to 1500 feet (450 m) at 900 MHz  
 Max (outdoor LOS with high gain antenna) 7 miles (11 km) at 900 MHz  
 - 2.4 GHz model available upon request  
 Transmitter Power: 100 mW 20 DBM at 900 MHz

Oxygenation and Water Management Specialists - Making your water better!



**NEW complete system for monitoring and controlling critical water quality parameters in Aquaculture.**



**Main Controller**



- pH
- Temperature
- ORP / REDOX
- Dissolved Oxygen
- Total Gas Pressure
- Feeder Control
- Alarm Control
- Pump Control
- Light Control

- Uses smart sensor technology.
- Advanced technology made simple.
- Fraction of the cost of other systems.
- Customizable solutions, easy to install and expand.
- Worldwide sales and support.



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Point Four specializes in the design and supply of systems for measuring and controlling levels of oxygen and other gases in water. Established in 1988, Point Four's success is built on our willingness to "go that extra mile"; helping our customers with engineering expertise and the very best after-sales support.



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**Making your water better!**

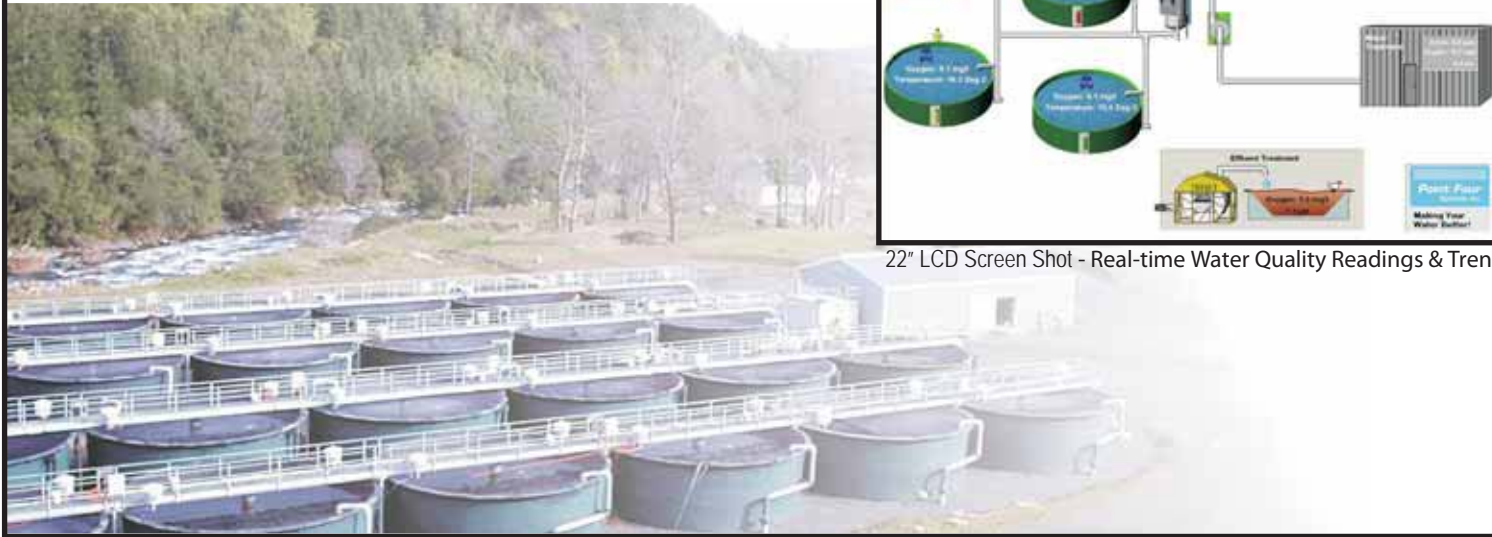
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# BUILT TO SUIT YOUR APPLICATION

## HATCHERIES / FISH FARMS

- Systems can be tailored to accommodate small to large facilities.
- System is easy to expand with future renovations.
- 24h remote access via built in web server.
- Nearly unlimited control / monitoring options.
- Wireless option provides easier installation and maintenance while reducing the costs and eliminating the need for storing extra cable.



### Customizable Software Available



22" LCD Screen Shot - Real-time Water Quality Readings & Trending

## LIVE FISH TRANSPORT

- Wireless connection from trailer to cab, eliminating cable problems.
- Built in datalogger, with easy information download.
- Rugged components built to withstand the elements.
- Non-obstructive ergonomic enclosure for mounting in cab.
- Complete turn key systems available include monitoring, control, and diffusers.



## SEA CAGES

- Nema 4x weatherproof enclosures.
- Sea pen oxygen injection control capabilities.
- Wireless connection allows for direct and constant communication from cage to shore.
- Optional remote satellite communication uplink.
- Head office central control via web server (requires internet connection).



## TYPICAL SYSTEM LAYOUT

