

## WPH Specifications

### Measurement Performance

pH Range:	-2 to 16 pH
pH Resolution:	.0015 pH units (.01 pH displayed)
pH Accuracy (Calibrated):	± .01 pH
ORP Range:	-1500 to 1500 mV
ORP Resolution:	92 µV (1mV displayed)
ORP Accuracy:	±1 mV
Temp Comp (optional):	100 or 1000 ohm platinum RTD
Temperature Range:	32-212°F (0-100°C)
Temperature Resolution:	±.09°F (.05°C)
Temperature Accuracy:	± .9°F (± .5°C)

### Electrical: Input/Output

#### *Input Power*

Controller	110-120VAC	or	220-240VAC
	50/60 Hz, 10A	or	50/60 Hz, 5A

#### *Input Signal*

pH/ORP	±1500 mV
Temp Comp (optional)	Pt100 or Pt1000
Interlock (optional)	Isolated dry contact closure required (i.e., flow, level, etc.)

#### *Output*

Control 1/2 (ON/OFF)	
Internally powered relays	@ 120 VAC, 10A resistive, 1/8 HP @ 240 VAC, 6A resistive, 1/8 HP

Control 1/2 (Proportional)	
Opto-isolated	150mA, 40 VDC Max.
Solid State Relay	VLOWMAX = .13V @ 18 mA

AUX1, AUX2, Alarm	
Dry contact relays	@ 120 VAC, 10A resistive, 1/8 HP @ 240 VAC, 6A resistive, 1/8 HP

*Note:* The Alarm relay is non-programmable. Refer to the Main Menu diagram on page 14 for the list of error conditions that trigger the alarm relay.

4-20 mA (optional)	Fully isolated, internally powered, 600 Ω max. resistive load. Resolution .001% of span, accuracy ±1% of reading.
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pH/ORP Preamp Power            ±5 VDC, 5 mA  
(supplied by controller)

### ***Agency Approvals***

UL                    ANSI/UL 61010-1:2004, 2<sup>nd</sup> Edition\*  
CAN/CSA            C22,2 No.61010-1:2004 2<sup>nd</sup> Edition\*  
CE Safety            EN 61010-1 2<sup>nd</sup> Edition (2001)\*  
CE EMC              EN 61326 :1998 Annex A\*

Note: For EN61000-4-6,-3 the controller met performance criteria B.

\*Class A equipment: Equipment suitable for use in establishments other than domestic, and those directly connected to a low voltage (100-240 VAC) power supply network which supplies buildings used for domestic purposes.

### **Mechanical**

#### ***Controller***

Enclosure:                                  Fiberglass  
NEMA Rating:                                NEMA 4X  
Dimensions:                                 8.5" x 6.5" x 5.5"  
Display:                                        2 x 16 character backlit liquid crystal  
Operating Ambient Temp:                 32 - 122°F (0 - 50°C)  
Storage Temperature:                      -20 to 180°F (-29 to 80°C)  
Shipping Weight:                            7 lbs (3kg) (approximately)

#### ***Flow Switch Manifold Assembly***

Temperature:                                140°F (60°C) max  
Pressure:                                     150 PSI max  
Process Connections:                      ¾" NPTF