

# PH CONTROLLER/MONITOR

Model : PPH-2108

ISO-9001, CE, IEC1010



pH electrode, PE-21  
( Optional )



LUTRON ELECTRONIC

*The Art of Measurement*

# PH CONTROLLER/MONITOR

Model : PPH-2108

## FEATURES

* Professional pH and Temp. measurement monitor and controller.
* pH range : 0 to 14 pH x 0.01 pH.
* pH function with high input impedance avoids measuring error.
* Optional Temp. probe ( ATC probe, Automatic Temp. Compensation probe ) is available for pH measurement compensation and the Temp. measurement.
* Wide manual temperature compensation for pH function, adjustment can be easily operated by push button on the front panel.
* pH calibration is easily to be done by push button on the front panel.
* Build in pH control relay and the Temp. control relay.
* Relay will be make action ( On/Off ) when the reading value reach high limit or low limit value.
* Temperature Offset value setting.
* Hysteresis value setting for high and low alarm.
* °C, °F temp. unit setting with default.
* Large red LED display, high brightness and easy to read.
* RS232 computer interface, send out the pH and the temperature data at the same time.
* Optional pH electrode.
* Optional Temperature probe ( ATC probe ).
* Optional data acquisition software.
* Optional GSM controller.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Standard 96 X 48 mm DIN case.
* Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college.

## GENERAL SPECIFICATIONS

Display	4 digits red LED, digit size : 14 mm.	
Circuit	Custom chip of microprocessor LSI circuit.	
Range	PH	0 to 14 PH
	Temp.	-30 to 100 °C
Display Unit	pH	pH
	Temp.	°C, °F
pH Input Impedance	10 <sup>12</sup> ohm	
Temperature Compensation for pH measurement	Manual	-30 to 100 °C, be adjusted by push button on front panel.
	Automatic ( ATC )	With the optional Temp. probe ( TP-07A ) 0 to 65 °C.
pH Calibration	PH7, PH4, and PH10, 3 points calibration ensure the best linearity and accuracy.	
pH Electrode	Optional, Any PH electrode with BNC connector.	
Temp. Probe ATC Probe	Optional, 0 to 65 °C, TP-07A	
Probe Calibration Period Setting	Can set the meter's total operation period to warn the user to make the new calibration for the pH electrode. * PCPS function	

Sampling Time	Approx. 1 second.	
Relay outputs	Number	2 relays
	Function	Relay 1 : pH control relay. Relay 2 : Temperature control relay.
	Max load	1 ACA/250 ACV 1 DCA/24 DCV
Setting value	1. High limit value setting. 2. Low limit value setting. 3. Hysteresis value setting. 4. Temp. Offset value setting. * 1, 2, 3 Setting for pH and Temp. function.	
External Power Supply	DC 12 V, 50 mA max.	
Data Output	RS 232 PC serial interface.	
Operating Temperature	0 to 50 °C. * Meter	
Operating Humidity	Less than 80% R.H. * Meter	
Power Supply	90 to 260 ACV, 50/60 Hz.	
Power Consumption	Approx. 4.7 VA/AC 110V. Approx. 5.3 VA/AC 220V.	
Weight	384 g/ 0.84 LB. * Meter only.	
Dimension	DIN size : 96 x 48 mm. Depth : 110 mm.	
Accessories Included	Instruction manual..... 1 PC Case holder with screw..... 2 PCs	
Optional Accessories	PH electrodes : * Industrial in line pH electrode, PE-21 * General purpose PH electrode, PE-03 PH buffer solution : * pH 7 buffer solution, PH-07, PH-07A. * pH 4 buffer solution, PH-04, PH-04A. * Temp. probe ( ATC probe ), TP-07A * Data Acquisition software, SW-U801-WIN. * RS232 cable, UPCB-02. * USB cable, USB-01. * GSM controller, GSM-889. * Interface cable ( cable between meter to GSM-889 ), GMCB-89.	

## ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

### pH ( meter only )

Range	Resolution	Accuracy
0 to 14 PH	0.01 PH	± (0.02 PH + 2 d)

### Temperature

( used optional Temp. probe, TP-07 A )

Measurement	Range	Resolution	Accuracy
°C	0 °C to 65 °C	0 °C to 65 °C	0.8 °C.
°F	32°F to 149 °F	32°F to 149 °F	1.5 °F.