

*ATC, two displays, auto calibration*

# pH METER

Model : PH-221E

*ISO-9001, CE, IEC1010*



pH electrode  
( optional )



**LUTRON ELECTRONIC**

*The Art of Measurement*

pH/mV, manual Temp. adj. or ATC, auto calibration

# pH METER

## FEATURES

Model : PH-221E

* pH : 0 to 14.00 pH, mV : ± 1999 mV.
* mV function is used to accept the ORP electrode.
* BNC socket input, can accept most kind pH electrode.
* Separate pH electrode, easy for general purpose and remote measurement.
* pH measurement can select automatic temperature compensation ( via. optional Temp. probe ) or manual temperature adjustment.
* High input impedance for the pH function.
* Auto calibration for pH 7, pH 4 and pH 10 or other value.
* LCD with two display, easy readout.
* Manual and auto data logger, with flexible sampling time selection, can save max. 1,600 reading data.
* Can default auto power off or manual power off.
* Temperature unit can default to °C or °F.
* Microcomputer circuit, intelligent function, high accuracy.
* Records Maximum and Minimum readings with recall.
* Data hold function for freezing the desired value.
* Heavy duty & compact housing case.
* Available for wide applications, such as aquarium, beverage, fish hatcheries, food processing, photography, laboratory, quality control, school & colleges, swimming pools, water conditions.

## GENERAL SPECIFICATIONS

pH Electrode	Optional, Any pH electrode with BNC connector.
Measurement	pH 0 to 14 pH
	mV -1999 mV to 1999 mV
Temperature Compensation for pH measurement	Manual 0 to 100 °C, be adjusted by push button on front panel.
	Automatic ( ATC ) With the optional temperature probe ( TP-07 ) 0 to 65 °C.
pH Calibration	pH 7, pH 4, and pH 10, 3 points calibration ensure the best linearity and accuracy.  * Other calibration point that near the pH 7, pH 4, and pH 10 are available.

Input Impedance	10 <sup>12</sup> ohm
Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 44 mm x 29 mm, dual function LCD display.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of display	Approx. 1 second.
Power off	Auto power shut off to save battery life or manual power off.
Operating Temperature	0 to 50 °C.
Operating Humidity	Less than 80% RH.
Power Supply	006P DC 9V battery ( Alkaline or Heavy duty type ).
Power Current	Approx. DC 6 mA.
Weight	200 g/0.44 LB.
Dimension	135 x 60 x 33 mm.
Accessories Included	Instruction manual.....1 PC * pH electrode and the battery are optional.
Optional probes and accessories	* pH electrode.....PE-03, PE-11, PE-01,PE-06HD PE-02, PE-08, PE-03K7 PE-04HD, PE-05T.
	* Temp. probe for ATC..... TP-07
	* pH 7 buffer solution.....PH-07
	* pH 4 buffer solution.....PH-04
	* ORP electrode..... ORP-14
	* Hard carrying case..... CA-06 * Soft Carrying case..... CA-05A

## ELECTRICAL SPECIFICATIONS (23± 5 °C)

Measurement	Range	Resolution	Accuracy
pH	0 to 14 pH	0.01 pH	± (0.02 pH + 2 d)
mV	0 to ± 1999 mV	1 mV	± (0.5% + 2 d)
* pH accuracy is based on calibrated meter only.			
* Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.			

\* Appearance and specifications listed in this brochure are subject to change without notice.