# hybrid power, Patent GREEN POWER pH METER

# Model : PH-209G

# *ISO-9001, CE, IEC1010*





pH electrode ( optional )









# **LUTRON ELECTRONIC**

The Art of Measurement

## **GREEN POWER pH METER**

Model: PH-209G

#### 1. FEATURES

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*	Hybrid power, power supply from green power ( handy			
	generator ) or battery. If power source come from " Green			
	power ", battery is no need. Operate the generator 20			
	seconds will offer 10 minutes energy typically.			
*	Professional pH/mV METER.			
	pH range : 0 to 14 pH x 0.01 pH.			
	mV range : -1000 mV to 1000 mV.			
*	The instrument is with mV ( millivolt ) function for	]		
	mV measurement ( cooperate with optional ORP probe			
	to be a professional ORP meter)			
*	Wide range manual temperature compensation adjustment.			
*	Optional ATC (Automatic Temp. Compensation) probe is			
	available for pH measurement.			
*	Internal Temp. unit $^\circ\!\!C$ or $^\circ\!\!F$ selection.			
*	pH function with high input impedance avoids measuring			
	error.			
*	Microprocessor circuit assures high accuracy and reliable			
	performance.			
*	Large LCD, dual function display.			
*	Records Maximum and Minimum readings with recall.			
*	Data hold.			
*	Auto power shut off to battery life or manual power off.			
*	Powered by 006P DC 9V battery.			
*	RS 232/USB computer serial interface.			
*	Easy and automatic pH calibration procedures.			
*	Using the durable, long-lasting components and a strong			
	lightweight ABS-plastic housing case.			
*	Wide applications: water conditioning, aquariums, beverage,			
	fish hatcheries, food processing, photography, laboratory,			
	paper industry, plating industry, quality control, school &			
	college.			

#### GENERAL SPECIFICATIONS

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Circuit	Custom one-chip of microprocessor LSI circuit.			
Display	40 mm x 32 mm LCD (Liquid crystal			
	display).			
Measurement	рН	0 to 14 pH		
	mV	-1000 mV to 1000 mV		
Input	10^12 ohm			
Impedance				
Temperature	Manual	0 to 100 $^\circ\!\!\mathbb{C}$ , be adjusted by		
Compensation		push button on front panel.		
for pH	Automatic	* Cooperate the optional Temp.		
measurement	(ATC)	probe, TP-07.		
		* 0 to 65 °C.		
рН	pH 7, pH 4, and pH 10, 3 points calibration			
Calibration	ensure the best linearity and accuracy.			
Data hold	Hold the current reading value on the display.			
Memory	Maximum and Minimum reading values can			
Recall	be saved and retrieved by record function.			
Sampling Time	Approx. 1 se	Approx. 1 second.		

Auto shut off saves battery life or manual Power off off by push button. Data Output RS 232/USB PC serial interface. \* Connect the optional RS232 cable UPCB-02 will get the RS232 plug ( D9 plug ). \* Connect the optional USB cable USB-01 will get the USB plug. "- - - -" symbol on the display. Overload ndication эΗ Optional, Electrode Any pH electrode with BNC connector. Operating 0 ℃ to 50 ℃ (32 °F to 122 °F). Temperature Operating Max. 80% RH. Humidity Power Supply Green power : \* Hybrid power Power from the handy generator, battery is no need. Battery power : DC 9V battery, 006P, MN1604 (PP3) or equivalent. \* Alkaline or heavy duty type. Battery power : Approx. DC 4.5 mA. Power Consumption Weight 362 g/0.8 LB (battery included). Dimension 170 x 70 x 39 mm ( 6.7 x 2.8 x 1.1.5 inch). Standard Instruction manual.....1 PC. Accessories Optional pH electrodes : Probes & \* General purpose pH electrode, PE-03 Accessories \* General purpose pH electrode, PE-11 (Ref. page 20) \* Professional pH electrode, PE-01 \* Spear tip pH electrode, PE-04HD, PE-06HD \* pH electrode build in Temp. sensor, PE-05T \* pH electrode + Temp. probe, kit, PE-03K7 ORP electrode, ORP-14 Hard carrying case, CA-06 Soft carrying case, CA-05A RS232 cable, UPCB-02 RS232 cable, USB-01 Application Software, SW-U801-WIN

### ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

#### Measurement Range Resolution Accuracy pН 0 to 14 pH 0.01 pH ± (0.02 pH + 2 d)

m٧ 0 to ± 1000 mV 1 mV ± (0.5% + 2 d) \* pH accuracy is based on calibrated meter only.

less than 3 V/M & frequency less than 30 MHz only.

\* Specification tests under the environment RF Field Strength

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