

Bench type, RS232/USB, Data logger, + ORP

pH METER

Model : BPH-231

ISO-9001, CE, IEC1010



pH electrode
(optional)



LUTRON ELECTRONIC

The Art of Measurement

pH METER

Model : BPH-231

FEATURES

* Professional bench type meter with large size LCD display with green color back light.
* One meter for multi purpose operation : pH and mV (ORP).
* pH : 0 to 14.00 pH, ORP : ± 1999 mV.
* pH measurement can select ATC or manual temperature adjustment.
* High input impedance.
* pH measurement can make the auto calibration for pH 7, pH 4 and pH 10 or other value.
* Real time data logger (record year, month, date, hour, minute, second), 16,000 data logger.
* Auto data record, 16,000 Data logger no.
* Wide sampling time adjustment range from one second to 8 hours 59 minutes 59 seconds.
* Auto data logger, manual data logger.
* RS232 computer interface.
* Max., Min., Data hold.
* Can default auto power off or manual power off.
* DC 1.5V (UM-3, AA) x 8 PCs or DC 9V adapter in.
* Super large LCD display with backlight.
* Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 82 mm x 61 mm. * with green color backlight.	
Measurement	pH mV (ORP)	
pH Electrode	Optional, Any pH electrode with BNC connector.	
Measurement	pH	0 to 14 pH
	mV	-1999 mV to 1999 mV
Input Impedance	10 ¹² ohm	
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	pH7, pH4, and pH10, 3 points calibration ensure the best linearity and accuracy.	
Sampling Time of Data Logger	Auto data logger : 1 sec to 8 hour 59 min. 59 sec. Manual data logger : Set sampling time to 0 second.	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time of display	Approx. 1 second.	

Power off	Auto shut off saves battery life or manual off by push Button. @ Can default auto power or manual power off. @ When default auto power function, power will off automatically after 10 MIN, if no Button be pressed.
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Operating Temperature	0 to 50 °C. - Main instrument.
Operating Humidity	Less than 80% R.H.
Power Supply	DC 1.5 V battery (UM3) x 8 PCs, (Heavy duty type). DC 9V adapter input. @ AC/DC power adapter is optional.
Power Consumption	Operation (LCD backlight ON) : Approx. DC 23 mA Operation (LCD backlight OFF) : Approx. DC 8 mA Power OFF (only internal clock running) : Approx. DC 1.8 uA.
Weight * meter	1049 g/2.3 LB.
Dimension @ Meter	225 X 125 X 64 mm (8.86 X 4.92 X 2.52 inch)
Accessories Included	Instruction manual..... 1 PC
Optional Accessories	* pH electrode..... PE-03, PE-11, PE-01, PE06HD PE-04HD, PE-05T, PE-03K7 PE-02, PE-08, PE-21 * ATC (Automatic Temperature Probe).....TP-07 * pH 7 buffer solution..... pH-07 * pH 4 buffer solution..... pH-04 * Carrying case.....CA-03 * ORP electrode.....ORP-14 * Carrying case.....CA-08 * pH electrode holder.....EH-20 * AC to DC 9V adapter. * RS232 cable, UPCB-02. * USB cable, USB-01 * Data Acquisition software, SW-U801-WIN. * Data Logger software, SW-DL2005.

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.