

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

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|---|
| * 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. | |

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|-----------------------|--|
| 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. | | | |