Bench type, SD Card real time data recorder

pH/ORP METER

Model: BPH-241SD *ISO-9001*, *CE*, *IEC1010*









The Art of Measurement

pH/ORP METER

Model: BPH-241SD

FEATURES

*	Bench type pH/ORP METER.
*	Multi-function:
	pH measurement, ORP (mV) measurement.
*	pH: 0 to 14.00 pH.
*	ORP (mV) : -1,999 mV to 1999 mV.
*	pH measurement can make the auto calibration for
	pH 7, pH 4 and pH 10 or other value.
*	Separate probe, easy for operation of different
	measurement environment.
*	Wide applications: water conditioning, aquariums,
	beverage, fish hatcheries, food processing,
	photography, laboratory, paper industry, plating
	industry, quality control, school & college, water
*	Real time SD memory card Data logger, it Built-in Clock
	and Calendar, real time data recorder , sampling time set
	from 1 sec to 8 hour 59 min. 59 sec.
*	Innovation and easy operation, computer is not need to
	setup extra software, after execute data logger, just take
	away the SD card from the meter and plug in the SD card
	into the computer, it can down load the all the measured
	value with the time information (year/month/date/
	hour/minute/second) to the Excel directly, then user can
	make the further data or graphic analysis by themselves.
*	LCD with green light backlight, easy reading.
*	Can default auto power off or manual power off.
*	Microcomputer circuit, high accuracy.
*	ATC (automatic temperature compensation).
*	Data hold, Record (Max., Min.).
\Box	RS232/USB computer interface.
	SD card capacity: 1 GB to 16 GB.
*	Power by DC 1.5 V (AA/UM-3 alkaline type)
L	battery x 6 PCs or DC 9V adapter in.
*	Optional pH electrodes.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI				
	circuit.				
Display	LCD size :	LCD size : 56 mm x 97 mm			
	LCD with green backlight (ON/OFF).				
Measurement	pH measurement, ORP (mV) measurement.				
Function					
Datalogger	Auto 1 sec to 8 hour 59 min. 59 sec.				
Sampling Time		@ Sampling time can set to 1 second,			
Setting range		but memory data may loss.			
	Manual	Push the data logger button			
		once will save data one time.			
		@ Set the sampling time to			
		0 second.			
		@ Manual mode, can also select the			
		1 to 99 position (Location) no.			
Memory Card	y card. 1 GB to 16 GB.				
Advanced	* SD memory card Format				
setting	* Set clock time (Year/Month/Date,				
	Hour/Minute/ Second)				
	* Set sampling time				
	* Auto power OFF management				
	* Set beep Sound ON/OFF				
	* Decimal point of SD card setting				
	* Set temperature unit to °C or °F				
	* Set pH ma	nual Temp. compensation value			
Data Hold	Freeze the display reading.				
Memory Recall	Maximum 8	Maximum & Minimum value.			
Sampling Time	Approx. 1 s	Approx. 1 second.			
of Display					
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 v	will get the USB plug.			
Operating	0 to 50 ℃.				
Temperature					

Operating	Less than 85% R.H.		
Humidity			
Power Supply	Power by DC 1.5 V (AA/UM-3 alkaline type)		
	battery x 6 PCs or DC 9V adapter in.		
Power Current	* w/o SD card and LCD Backlight is off :		
	Approx. DC 14 mA.		
	* When SD card save the data and LCD		
	backlight is off.		
	Approx. DC 34 mA.		
	* If LCD backlight on, the power		
	consumption will increase approx. 5 mA.		
Weight	1400 g/3.08 LB.		
Dimension	290 x 220 x 90 mm (11.5 x 8.7x 3.6 inch)		
	* Meter only		
Accessories	* Instruction manual1 PC		
Included			
Optional	* pH electrodes :		
Accessories	PE-03, PE-11, PE-01, PE-06HD, PE-06HDA		
	PE-04HD, PE-03K7, PE-02, PE-08, PE-21.		
	* ATC probe for pH (Automatic Temperature		
	Probe) TP-07.		
	* pH 7 buffer solutionPH-07, PH-07A.		
	* pH 4 buffer solutionPH-04, PH-04A.		
	* ORP ElectrodeORP-14, ORP-15		
	* AC to DC 9V adapter.		
	* USB cable, USB-01.		
	* RS232 cable, UPCB-02.		
	* Data Acquisition software, SW-U801-WIN.		
	* SD memory card (4G).		

ELECTRICAL SPECIFICATIONS (23±5 ℃)

Optional,			
Any pH electrode with BNC connector.			
Optional, ORP-14, ORP-15.			
рН	0 to 14 PH		
mV (ORP)	-1999 mV to 1999 mV		
10^12 ohm			
Manual	0 to 100 ℃, be adjusted by		
	push button on front panel.		
Automatic	With the optional temperature		
(ATC)	probe (TP-07)		
	0 to 65 ℃.		
pH 7, pH 4, and pH 10, 3 points calibration			
ensure the best linearity and accuracy.			
pН	PE-03, PE-11, PE-01,		
electrodes	PE-02, PE-08, PE-21,		
	PE-06HDA, PE-04HD,		
	PE-03K7.		
* ATC (automatic temperature			
probe)TP-07			
* pH 7 buffer solutionPH-07, PH-07A			
* pH 4 buffer solutionPH-04, PH-04A			
* ORP electrodeORP-14,			
	ORP-15		
	Any pH electr Optional, ORF pH mV (ORP) 10^12 ohm Manual Automatic (ATC) pH 7, pH 4, a ensure the be pH electrodes * ATC (auto probe) * pH 7 buffer * pH 4 buffer		

Measurement	Range	Resolution	Accuracy		
pН	0 to 14 pH	0.01 pH	± (0.02 pH + 2 d)		
mV (ORP)	-1999 to	1 mV	± (0.5% + 2 d)		
	1999 mV				
* Above accuracy is based on calibrated meter only.					

ATC Temperature (w/ optional probe , TP-07

Function	Measuring Range	Resolution	Accuracy				
$^{\circ}$	0 ℃ to 60 ℃	0.1 ℃	± 0.8 °C				
°F	32 °F to 140 °F	0.1 °F	± 1.5 °F				
@ 23± 5℃							

^{*} Appearance and specifications listed in this brochure are subject to change without notice.