# pH METER

Model: PH-230SD *ISO-9001, CE, IEC1010* 







pH electrode (optional)



The Art of Measurement

## SD Card real time data logger

## **pH METER**

Model: PH-230SD

#### **FEATURES**

*	pH: 0 to 14.00 pH, mV (ORP): ± 1999 mV.
*	pH measurement can select ATC or manual Temp. adj
*	Optional ATC probe for pH measurement.
*	pH measurement can make the auto calibration for
	pH 7, pH 4 and pH 10 or other value.
*	Real time SD memory card Datalogger, it Built-in Clock
	and Calendar, sampling time set from 1 sec to 8 hour
	59 min. 59 sec.
*	Manual datalogger is available ( set the sampling
	time to 0 ), during execute the manual datalogger
	function, it can set the different position ( location ) No.
	( position 1 to position 99 ).
*	Innovation and easy operation, computer is not need to
	setup extra software, after execute datalogger, 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.
*	SD card capacity: 1 GB to 16 GB.
	LCD with green light backlight, easy reading.
*	can detail date power on or mandar power on.
*	Data hold, record max. and min. reading.
*	Microcomputer circuit, high accuracy.
*	Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
*	RS232/USB PC COMPUTER interface.
*	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 : 52 mm x 38 mm			
	LCD with green backlight ( ON/OFF ).			
Measurement	pH			
Function	ORP ( mV )			
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 SD memory 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 manual Temp. compensation value			
Data Hold		ne display reading.		
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1 second.			
of Display				

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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	0 to 50 ℃.			
Temperature				
Operating	Less than 85% R.H.			
Humidity				
Power Supply	*.Alkaline or heavy duty DC 1.5 V battery			
113	( UM3, AA ) x 6 PCs, or equivalent.			
	* DC 9V adapter input. ( AC/DC power			
	adapter is optional ).			
Power Current	Normal operation ( w/o SD card save			
l ovoi ourrone	data and LCD Backlight is OFF) :			
	Approx. DC 14 mA.			
	When SD card save the data and LCD			
	Backlight is OFF) :			
	Approx. DC 37 mA.			
	* If LCD backlight on, the power			
	consumption will increase approx.			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	12 mA.			
Weight	489 g/1.08 LB.			
Dimension	177 x 68 x 45 mm (7.0 x 2.7x 1.9 inch)			
Accessories	* Instruction manual1 PC			
Included				
Optional	* PH electrode			
Accessories	PE-03, PE-11, PE-06HDA,			
	PE-03K7			
	* ATC Temp. probeTP-07			
	* pH 7 buffer solutionPH-07			
	* pH 4 buffer solution PH-04			
	* ORP ElectrodeORP-14			
	* Hard carrying caseCA-06			
	* Soft carrying case			
	SD memory card (1 GB)			
	SD memory card ( 2 GB )			
	AC to DC 9V adapter.			
	USB cable, USB-01.			
	RS232 cable, UPCB-02.			
	Data Acquisition software, SW-U801-WIN.			

ELECTRICAL SPECIFICATIONS (23±5 ℃)

рН	Optional,			
Electrode	Any pH electrode with BNC connector.			
Measurement	рН	0 to 14 pH		
	mV	-1999 mV to 1999 mV		
Input	10^12 ohm			
Impedance				
Temperature	Manual	0 to 100 °C, be adjusted by		
Compensation		push button on front panel.		
for pH	Automatic	With the optional temperature		
measurement	(ATC)	probe (TP-07)		
		0 to 65 ℃.		
рН	pH7, pH4, and pH10, 3 points calibration			
Calibration	ensure the best linearity and accuracy.			

Measurement	Range	Resolution	Accuracy	
рН	0 to 14 pH	0.01 pH	±(0.02 pH + 2 d)	
	Principle of the Control of the Cont	143-20-00H DOM-21/7/8	* meter only	
			±( (0.02 pH + 2 d) +0.15pH )	
			* meter + pH electrode	
mV (ORP)	0 to 1999 mV	1 mV	±(0.5% + 2 d)	

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