

**GENERAL<sup>®</sup>**

# pH, ORP Meter

## with Excel-Formatted Data Logging SD Card

### Accurately Measures pH and ORP (Oxidation-Reduction Potential)



No. DPH230SD

#### Applications:

- Water conditioning
- Beverage production
- Wastewater monitoring
- Aquaculture (fish farming)
- Aquariums
- Pulp and paper processing
- Electroplating
- Photography



Water Conditioning



Beverage Production

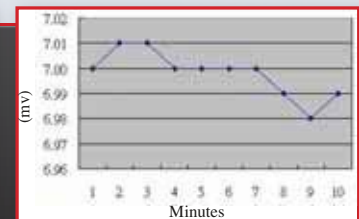
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



### Patented Technology

	A	B	C	D	E	F	G
1	Position	Date	Time	Ch1_Value	Ch1_Unit	Ch2_Value	Ch2_Unit
2	1	2009/8/12	13:26:37	7.00	pH	25.0	Degree_C
3	2	2009/8/12	13:26:39	7.01	pH	25.0	Degree_C
4	3	2009/8/12	13:26:41	7.01	pH	25.0	Degree_C
5	4	2009/8/12	13:26:43	7.00	pH	25.0	Degree_C
6	5	2009/8/12	13:26:45	7.00	pH	25.0	Degree_C
7	6	2009/8/12	13:26:47	7.00	pH	25.0	Degree_C
8	7	2009/8/12	13:26:49	7.00	pH	25.0	Degree_C
9	8	2009/8/12	13:26:51	6.99	pH	25.0	Degree_C
10	9	2009/8/12	13:26:53	6.98	pH	25.0	Degree_C

Typical Excel Data



Typical Excel Plotted Data

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# pH, ORP Meter

## with Excel-Formatted Data Logging SD Card

### Features:

- Measures pH and ORP using optional electrodes
- Measured parameter can be changed by pressing front-panel button
- Optional ATC temperature probe automatically calibrates pH electrode to pH 4, pH 7 and pH 10
- Displays maximum and minimum readings
- Performs real-time automatic data logging at sampling time settable from 1 second to 9 hours
- Also supports manual logging and changing of card storage location
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Auto power off function

### Included Accessories:

- Carrying case
- 2 GB SD memory card
- User's manual

### Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- ORP probe (General P/N ORP14)
- Automatic temperature compensation (ATC) probe (General P/N TP07)
- Professional-grade 0 to 14 pH electrode (General P/N PHS1)
- Heavy-duty spear tip pH electrodes (General P/Ns PHS4HD and PHS6HD)
- Combination pH electrode/temperature probe (General P/N PHS5T)
- Combination pH electrode/temperature probe with automatic temperature compensation (General P/N PHS3K7)
- SDRD1 - SD Card Reader



No. DPH230SD

### Specifications:

**Embedded Microcontroller:** Custom one-chip LSI device

**Display Type:** LCD with green backlight

**Display Size:** 2.05 x 1.5 in. (52 x 38mm)

**Parameters Measured:** pH, ORP

**Measurement Range:**

- For pH: 0 to 14
- For ORP: -1999 mV to +1999 mV

**Measurement Accuracy:**

- For pH:  $\pm$  (0.02 pH units + 2 digits)
- For ORP:  $\pm$  (0.5% of reading + 2 digits)

**Measurement Resolution:**

- For pH: 0.01 unit
- For ORP: 1 mV

**Temperature Compensation:**

- Automatic between 32° and 150°F (0° and 65°C) when using optional ATC temperature probe.
- Manually settable between 32° and 212°F (0° and 100°C) without ATC probe

**Storable/Recallable Readings:** Maximum, minimum

**Data Logging Sampling Time:** 1 second to 9 hours

**SD Card Capacity:** 1 GB to 16 GB

**Settable Parameters:** Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, compensation temperature

**Operating Temperature:** 32° to 122°F (0° to 50°C)

**Operating Relative Humidity:** 0 to 85%

**Power Consumption:**

- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card saving data
- 49 mADC with backlight on and card saving data

**Dimensions:** 6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

**Weight:** 1.08 lb. (489g)

**Power Source:**

Six "AA" batteries or optional 9-VDC AC adapter



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