

pH/ORP Meter with Real-Time Data Logger



PHH-SD1



- ✓ LCD with Green Light Backlighting
- ✓ 0 to 14 pH or ±1999 mV for ORP Measurement
- ✓ Real Time SD Memory Card Data Logger (SD Card Included)
- ✓ Automatic Buffer Calibration (Buffers Sold Separately)
- ✓ RS232/USB Interface (Optional Cable)
- ✓ Automatic Temperature Compensation (Optional Probe)

The Omega™ PHH-SD1 is innovative and easy to operate. What sets the PHH-SD1 apart from other pH/ORP meters is that it incorporates a real-time SD card data logger. The PHH-SD1 measures pH or mV (ORP) using standard electrodes with BNC connectors. Download data from the SD card directly into an Excel spreadsheet. This allows the user to do further data or graphical analysis without special software. The PHH-SD1 has a wide variety of applications from water conditioning, aquariums, beverage manufacturing and fish hatcheries to food processing, photography, paper and plating industries, educational and other laboratories.

Specifications

Display: 52 x 38 mm (2.04 x 1.5") LCD with switchable green backlight

Measurement: 0 to 14 pH or -1999 mV to 1999 mV (ORP)

Sampling Time:

Auto: 1 second to 8 hrs 59 min 59 sec

Manual: Push the data logger button once will save data one time

Memory Card: SD memory card

Temperature Compensation: Automatic (with optional temperature probe) or manual

Display Update: At 1 second

Data Output (RS232/USB): With optional cable/software

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

Operating Humidity: Less than 85% RH

Power: 6 "AAA" alkaline batteries (included), or 9V power adaptor (optional)

Current Draw: 14 mA DC (without SD card or backlight), 49 mA (all functions)

Weight: 489 g (1.08 lb)

Dimensions: 177 H x 68 W x 45 mm D (6.96 x 2.67 x 1.77")

Input Impedance: 10¹² Ω

Manual Temperature Compensation: Pushbutton on front panel

Automatic: With the optional temperature measurement probe from 0 to 65°C (32 to 149°F)

Calibration: pH4, pH7, and pH10, 3 points calibration provides the best linearity and accuracy

Measurement	Range	Resolution	Accuracy
pH*	0 to 14 pH	0.01 pH	± (0.02 pH + 2 d)
mV (ORP)	0 to 1999 mV	1 mV	± (0.5% + 2 d)

* pH accuracy is based on calibrated meter only.



PHH-SD1, pH/ORP meter with real-time data logger (electrode sold separately).

PHH-SD1 includes manual, carrying case, batteries, and 2 GB SD card.

To Order

Model No.	Description
PHH-SD1	Data logging pH/ORP meter with SD card
PHE-1304	Standard pH laboratory electrode
ORE-1311	Standard ORP laboratory electrode
SW-U101-WIN	Software for data logging from meters, with USB and RS232 cables
HC-SD	Replacement hard case
SC-SD	Soft case
ADAPTER-SD	AC adaptor
USB-SD	Spare USB cable (SW-U101-WIN software required)
RS232-SD	Spare RS232 cable (SW-U101-WIN software required)
2GB-SD	Spare 2 GB SD memory card
PHA-4	Calibration buffer solution pH 4
PHA-7	Calibration buffer solution pH 7
PHA-10	Calibration buffer solution pH 10
HHWT-SD1-ATC	Temperature probe

Comes complete with operator's manual, hard carrying case, 2 GB SD card, and 6 "AAA" batteries. Electrodes are sold separately.

Ordering Example: PHH-SD1, data logging pH/ORP meter with 2 GB SD card, and PHE-1304 pH electrode.