



## Handheld Data Logging Meter with SD Card For Measuring Conductivity, TDS, Salt Concentration, pH, ORP and DO

### HHWT-SD1



- ✓ Dissolved Oxygen Measurements can be Compensated for Salt, Altitude and Temperature
- ✓ Measures Oxygen Content of a Volume of Air
- ✓ Optional ATC for pH Compensation
- ✓ Records Maximum and Minimum Readings
- ✓ Performs Real-Time Automatic Data Logging
- ✓ Sampling Time Settable from 1 Sec to 9 Hrs
- ✓ Large Easy-to-Read Green Backlit LCD
- ✓ Auto Power-Off Function

The HHWT-SD1 is a general purpose handheld instrument capable of measuring the pH, Oxidation-Reduction Potential (ORP) or conductivity of a solution, as well as its TDS (Total Dissolved Solids), DO (Dissolved Oxygen) or salt content. Using the included conductivity/TDS/salt probe, an optional DO probe, and optional ORP or pH electrodes the meter can measure pH from 0 to 14, ORP from -1999 mV to 1999 mV, conductivity up to 200 mS (milliSiemens), TDS up to 132,000 ppm, DO up to 20 mg/L, and salt content up to 12% by weight.

The HHWT-SD1 is designed for water conditioning, wastewater monitoring, beverage production, aquaculture (fish farming), aquariums, pulp and paper processing, electroplating, and photography applications. A front-panel pushbutton enables rapid switching among the meter's four measurement modes.

Because it is microprocessor-based, the HHWT-SD1 is portable, reliable and has the large storage capacities that SD memory cards offer. Measurements can be made automatically at any sampling rate between one second and nine hours. After time-stamping and storing the measurements on an SD card plugged into the meter, the user can remove the card and plug it into a computer either directly or via a USB card reader. The values are stored on the card as files with the .xls extension, which can be opened by Microsoft's Excel® application.

### Specifications

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

#### Measurement Range:

- pH:** 0 to 14 (probe sold separately)
- ORP:** -1999 to 1999 mV (probe sold separately)
- Conductivity:** Up to 200 mS (microSiemens)
- TDS:** Up to 132,000 ppm
- DO:** Up to 20 mg/L (probe sold separately)
- Salt:** Up to 12% by weight

#### Measurement Accuracy:

- pH:** ±(0.02 pH units + 2 digits) (probe sold separately)
- ORP:** ±(0.5% of reading + 2 digits) (probe sold separately)
- Conductivity:** ±2% of full-scale reading + 1 digit
- TDS:** ±2% of full-scale reading + 1 digit
- Temperature:** ±0.8°C/±1.5°F



**DO:** ±0.4 mg/L in solution (probe sold separately)

**Oxygen:** 0.1% for oxygen in air (probe sold separately)

**Salt:** ±0.5% of value

**Temperature Compensation:** Automatic between 0 and 65°C (32 and 150°F) with optional ATC temperature probe. Manually settable between 0 and 100°C (32 and 212°F) without ATC probe

**Settable Parameters:** Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, compensation temperature. Also salt and altitude compensation (DO mode only)

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

**Meter Dimensions:** 135 H x 60 W x 33 mm D (5.31 x 2.36 x 1.30")

**Weight:** 35 oz (2.19 lb)

### To Order

Model No.	Description
HHWT-SD1	Handheld SD data logging water test meter
ADAPTOR SD	Optional AC adaptor
HHWT-SD1-ATC	Optional ATC temperature probe
HHWT-SD1-DO	Optional DO laboratory electrode
ORE-1311	Optional ORP laboratory electrode
PHE-1311	Optional pH laboratory electrode
PHA-4	pH 4 buffer solution
PHA-7	pH 7 buffer solution
PHA-10	pH 10 buffer solution
CDSA-1413	1413 microSiemen conductivity solution

*Comes complete with meter, combination conductivity/TDS/salt probe, hard carrying case, 2 GB SD memory card and operator's manual (solutions sold separately).*

**Ordering Example:** HHWT-SD1, data logging water test meter with PHE-1311, pH electrode and PHA-4, pH 4 buffer solution.