



Conductivity, TDS and Salt Meter with Real Time SD Card Data Logger

CDH-SD1



- ✓ LCD with Green Light Backlighting
- ✓ Conductivity, TDS or Salt Measurements
- ✓ Real Time SD Memory Card Data Logger (SD Card Included)
- ✓ Automatic Calibration (Solutions Sold Separately)
- ✓ RS232/USB Interface (Optional Cable)
- ✓ Automatic Temperature Compensation

The OMEGA® CDH-SD1 is innovative and easy to operate. What sets the CDH-SD1 apart from other conductivity meters is that it incorporates a real-time SD card data logger. The CDH-SD1 measures conductivity, TDS (Total Dissolved Solids) or salt concentration using a carbon rod electrode for long life. Downloading data from the SD card into an Excel spreadsheet allows the user to do further data or graphical analysis without special software. The CDH-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:

- Conductivity:** 200 uS, 2, 20, or 200 mS
- TDS:** 200, 2000, 20,000, or 132,000 PPM
- Salt:** 0 to 12% (% by weight)

Sampling Time:

- Auto:** 1 second to 8 hours 59 minutes 59 seconds
- Manual:** Push the data logger button once will save data one time

Memory Card: SD memory card

Temperature Compensation: Automatic 0 to 60°C (32 to 140°F), compensation factor variable from 0 to 5.0% per °C

Display Update: @ 1 second

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

Operating Temperature:

- Meter:** 0 to 50°C (32 to 122°F)
- Probe:** 0 to 60°C (32 to 140°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:

- Instrument:** 177 L x 68 W x 45 mm D (6.96 x 2.67 x 1.77")
- Probe:** 22 Dia. x 120 mm L (0.86 x 4.8")

Temperature			
Function	Measuring Range	Resolution	Accuracy
°C	0 to 60	0.1	± 0.8
°F	32 to 140	0.1	± 1.5

Salt	
Measurement Range	Accuracy
0 to 12% salt (% weight)	± 0.5%
Resolution	0.01% salt



CDH-SD1

2GB-SD card (included).

Conductivity (uS, mS)			
Range	Measurement	Resolution	Accuracy
200 uS	0 to 200.0 uS	0.1 uS	±(2% FS +1d)*
2 mS	0.2 to 2.000 mS	0.001 mS	
20 mS	2 to 20.00 mS	0.01 mS	
200 mS	20 to 200.0 mS	0.1 mS	

TDS (Total Dissolved Solids)			
Range	Measurement	Resolution	Accuracy
200 PPM	0 to 132 PPM	0.1 PPM	±(2% FS +1d)**
2000 PPM	132 to 1320 PPM	1 PPM	
20,000 PPM	1320 to 13,200 PPM	10 PPM	
200,000 PPM	13,200 to 132,000 PPM	100 PPM	

Temperature compensation automatic from 0 to 60°C (32 to 140°F), with temperature compensation factor variable between 0 to 5.0% per °C.
 * The accuracy is specified under measurement value <100 mS @ 23± 5°C.
 ** The accuracy is specified under measurement value <66,000 PPM @ 23± 5°C.

To Order	
Model No.	Description
CDH-SD1	Conductivity, TDS and salt meter with real time SD card data logger
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
CDE-SD1	Replacement conductivity, TDS, salt probe
CDSA-45	45 µS/cm conductivity solution
CDSA-450	450 µS/cm conductivity solution
CDSA-1500	1500 µS/cm conductivity solution
CDSA-4500	4500 µS/cm conductivity solution

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

Ordering Example: CDH-SD1, conductivity, TDS and salt meter with SD card data logger and CDSA-45, 45 µS/cm conductivity standard solution.