



# Conductivity, TDS Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Any Solution's Conductivity,  
Total Dissolved Solids (TDS), Salt Content and Temperature**



No. DCT430SD

## Applications:

- Electroplating
- Water conditioning
- Wastewater monitoring
- Aquaculture (fish farming)



Wastewater Treatment

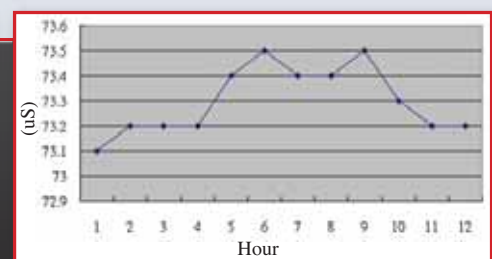


Salmon Farming

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



	A	B	C	D
1	Positions	Date	Time	Chl_Value
2	1	2009/8/12	13:16:36	73.1
3	2	2009/8/12	13:16:38	73.2
4	3	2009/8/12	13:16:40	73.2
5	4	2009/8/12	13:16:42	73.2
6	5	2009/8/12	13:16:44	73.4
7	6	2009/8/12	13:16:46	73.5
8	7	2009/8/12	13:16:48	73.4
9	8	2009/8/12	13:16:50	73.4
10	9	2009/8/12	13:16:52	73.5
11	10	2009/8/12	13:16:54	73.5





# Conductivity, TDS Meter with Excel-Formatted Data Logging SD Card

## Features:

- Measures hydraulic or pneumatic pressure using optional sensors with full-scale ranges from 2 to 400 bar
- Sensors calibrated by single push of a button
- Ten different pressure units selectable via front panel
- 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:

- Hard carrying case
- Combination conductivity/TDS/salt probe (General P/N CDPB03)
- 2 GB SD memory card
- User's manual

## Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader



No. DCT430SD

## 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)

**Probe Type:** Carbon rod electrode

### Parameters (units) Measured:

- Conductivity (uS, mS)
- Total dissolved solids (ppm)
- Salt content (% weight)
- Temperature (°F, °C)

### Measurement Accuracy:

- For conductivity:  $\pm 2\%$  of full-scale reading +1 digit, TDS
- For temperature:  $\pm 0.8^\circ\text{C}/\pm 1.5^\circ\text{F}$
- For salt:  $\pm 0.5\%$  of value

### Measurement Resolution:

- For Conductivity: 0.1 uS @ 200 uS full-scale (f.s.), 0.001 mS @ 2 mS f.s., 0.01 mS @ 20 mS f.s., 0.1 mS @ 200 mS f.s.
- For TDS: 0.1 ppm @ 200 ppm f.s., 1 ppm @ 2,000 ppm f.s., 10 ppm @ 20,000 ppm f.s., 100 ppm @ 100,000 ppm f.s.
- For Temperature:  $0.1^\circ\text{F}/0.1^\circ\text{C}$
- For Salt: 0.01%

### Temperature Compensation:

- Automatic from  $32^\circ$  to  $140^\circ\text{F}$  ( $0^\circ$  to  $60^\circ\text{C}$ )
- Temperature compensation factor is manually variable from 0 to 5% per degree Celsius

**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, temperature compensation level

### Operating Temperature:

- $32^\circ$  to  $122^\circ\text{F}$  ( $0^\circ$  to  $50^\circ\text{C}$ ) for meter
- $32^\circ$  to  $140^\circ\text{F}$  ( $0^\circ$  to  $60^\circ\text{C}$ ) for probe

**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 of Meter:

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

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

### Dimensions of Probe:

0.86 in. (diameter) x 4.72 in. (L) (22mm x 120mm)

### Power Source:

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

