SD Card real time data recorder, 4 Rings probe, TDS, Salt

CONDUCTIVITY METER

Model: CD-4316SD

ISO-9001, CE, IEC1010

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The Art of Measurement

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CONDUCTIVITY METER

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FEATURE

- * One meter for multi purpose operation: Conductivity, TDS (Total dissolved solids), Salt measurement.
- * Conductivity: 200 uS/2 mS/20 mS/200 mS.
- * Salt : 0 to 12 % salt (% weight).
- * Conductivity measurement can select Temp. Coefficient of measurement solution.
- * ATC for the conductivity measurement.
- * Separate probe, easy for operation of different measurement environment.
- * Real time SD memory card Datalogger, built-in Clock and Calendar, sampling time can set from 1 sec to 3600 seconds
- * Manual datalogger is available, during execute the manual datalogger function, it can set the different location no. (position 1 to position 99).
- * Innovation and easy operation, computer is not need to setup extra software, after execute datalogger, just take away the SD card from the meter and plug in the SD card into the computer, it can down load the all the measured value with the time information

(year/month/date/ hour/minute/second) to the Excel directly, thenuser can make the further data or graphic analysis by themselves.

- * SD card capacity: 1 GB to 16 GB.
- * LCD with green light backlight, easy reading.
- * It can default auto power off or manual power off.
- * Data hold, record max. and min. reading.
- * Microcomputer circuit, high accuracy.
- * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC COMPUTER interface.
- * Wide applications:

water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning.

GENERAL SPECIFICATION

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF).	
Measurement Function	Conductivity (uS, mS) TDS (Total Dissolved Solids, PPM) Salt (% Weight) Temperature (°C, °F)	
Temperature Compensation	Automatic from 0 to 60 $^{\circ}$ C (32 - 140 $^{\circ}$ F), with temperature compensation factor variable between 0 to 5.0% per C.	
Conductivity Probe	Pt glass electrode for long life. Hight performance for the low conductivity (pure water) measurement.	
Datalogger Sampling Time Setting range	Auto	1 sec to 3600 sec. @Sampling time can set to 1 second, but memory data may loss.

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	Manual	Push the data logger button once will save data one time. @Set the	
		sampling time to 0 second.	
		@Manual mode, can also select the 1 to 99 position (Location) no.	
Memory Card	SD memory card. 1 GB to 16 GB.		
Advanced setting	· Set clock time (Year/Month/Date,Hour/Minute/ Second)		
	· Set sampling time		
	· Auto power OFF management		
	· Set beep Sound ON/OFF		
	Decimal point of SD card setting		
	· SD memory card Format		
	· Set ten	nperature unit to °C or °F	
	→ Set CD	temperature compensation factor	
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value.		
Sampling Time of	Approx. 1 second.		
Display			
Data Output	RS 232/USB PC computer interface.		
	· Connect the optional RS232 cable UPCB-02 will get the RS232 plug.		
	· Connect the optional USB cable		
	USB-01 will get the USB plug.		
Operating Temperature	ture Meter 0 to 50 °C.		
	Probe	0 to 60 °C.	
Operating Humidity	Less than 85% R.H.		
Power Supply	* AAlkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent.		
	* ADC 9V adapter input. (AC/DC power adapter is optional).		
Power Current	ower Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : App		
	DC 6 mA.		
	When SD card save the data and LCD Backlight is OFF) : Approx. DC 37 mA.		
	* Alf LCD backlight on, the power consumption will increase approx. 12 mA.		
Weight	489 g/1.08 LB.		
Dimension	Meter	177 x 68 x 45 mm (7.0 x 2.7x 1.9 inch)	
	Probe	Round, 22 mm Dia. x 120 mm length.	
Accessories Included	· Instruc	ion manual 1 PC	
	· Conductivity/TDS/Salt 4 Rin probe, CDPB-0x1 PC		
	Hard carrying case (CA-06)1 PC		

ELECTRICAL SPECIFICATIONS (23 \pm 5 $^{\circ}$ C)

Range	Measurement	Resolution	Accuracy	
200 uS	0 to 200.0 uS	0.1 uS	±(2% F.S.+1d)	
2 mS	0.2 to 2.000 mS	0.001 mS	* F.Sfull scale	
20 mS	2 to 20.00 mS	0.01 mS		
200 mS	20 to 200.0 mS	0.1 mS		

- \cdot Temperature Compensation : Automatic from 0 to 60 $^{\circ}C$ (32 140 $^{\circ}F$), with temperature compensation factor variable between 0 to 5.0% per C.
- . The accuracy is specified under measurement value \leqq 100 mS.
- · mS milli Simens * @ 23±5°C

Range	Measurement	Resolution	Accuracy
200 PPM	0 to 132 PPM	0.1 PPM	±(2% F.S.+1d)
2,000 PPM	132 to 1,320 PPM	1 PPM	* F.Sfull scale
20,000 PPM	1,320 to 13,200 PPM	10 PPM	
200,000 PPM	13,200 to 132,000 PPM	100 PPM	

[·]Temperature Compensation : Automatic from 0 to 60 $^{\circ}$ C (32 - 140 $^{\circ}$ F), with temperature compensation factor variable between 0 to 5.0% per $^{\circ}$ C.

Temperature

Function	Measuring Range	Resolution	Accuracy
°C	0 °C to 60 °C	0.1 °C	±0.8 °C
°F	32 °F to 140 °F	0.1 °F	±1.5 °F
* @ 23±5°C			

Salt

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

^{*} Appearance and specifications listed in this brochure are subject to change without notice.

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[•]The accuracy is specified under measurement value ≤ 66,000 PPM. PPM - parts per million * @ 23±5°C