SD Card, real time data logger, TDS, Salt, Patent Pt glass electrode

CONDUCTIVITY METER

Model: CD-4317SD *ISO-9001, CE, IEC1010*









The Art of Measurement

SD Card real time data logger

Pt glass electrode

CONDUCTIVITY METER TDS, Salt

Model: CD-4317SD

FEATURES

* One meter for multi purpose operation :	
Conductivity, TDS (Total dissolved solids),	
Salt measurement.	
* Pt glss electrode, high performance for the low	
conductivity (pure water) 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 8	
hour 59 min. 59 sec.	
* 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	ı
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 adapte	r.
* 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 SPEC		-		
Circuit	Custom one-chip of microprocessor LSI circuit.			
Display	LCD size : 52 mm x 38 mm			
	LCD with green backlight (ON/OFF).			
Measurement	* Conductivity (uS, mS)			
Function	* TDS (Total Dissolved Solids, PPM)			
	* Salt (% Weight)			
	* Tempe	erature (°C,°F)		
Temperature		ic from 0 to 60 $^{\circ}\mathrm{C}$ (32 - 140 $^{\circ}\mathrm{F}$),		
Compensation		perature compensation factor		
		between 0 to 5.0% per C.		
Conductivity	* Pt glss	s electrode, high performance for		
	the lov	w 'conductivity (pure water)		
Probe	measu	rement.		
Datalogger	Auto	1 sec to 8 hour 59 min. 59 sec.		
Sampling Time		@ Sampling time can set to 1 second,		
Setting range		but memory data may loss.		
	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		ory card. 1 GB to 16 GB.		
Advanced	* SD memory card Format			
setting		ck time (Year/Month/Date,		
		linute/ Second)		
		npling time ower OFF management		
		ep Sound ON/OFF		
		Il point of SD card setting		
		nperature unit to °C or °F		
	* Set CD temperature compensation factor			
Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1 second.			
of Display				
Data Output	RS 232/l	JSB PC computer interface.		
•	* Conne	ct the optional RS232 cable		
	UPCB-02 will get the RS232 plug.			
	* Connect the optional USB cable			
	USB-01 will get the USB plug.			

Operating	Meter	0 to 50 ℃.		
Temperature	Probe 0 to 60 ℃.			
Operating	Less tha	Less than 85% R.H.		
Humidity				
Power Supply	*.Alkaline or heavy duty DC 1.5 V battery			
	(UM3, AA) x 6 PCs, or equivalent.			
	* DC 9V adapter input. (AC/DC power			
		er is optional).		
Power Current		operation (w/o SD card save		
		LCD Backlight is OFF) :		
		x. DC 14 mA.		
	When SI	O card save the data and LCD		
	Backligh	t is OFF):		
		x. DC 37 mA.		
	* . If LCD backlight on, the power			
	consumption will increase approx.			
	12 m/			
Weight	489 g/1.			
Dimension	Meter	177 x 68 x 45 mm		
		(7.0 x 2.7x 1.9 inch)		
	Probe	Round,		
		12 mm Dia. x 157 mm length.		
Accessories		* Instruction manual1 PC		
Included		ıctivity/TDS/Salt probe,		
		-041 PC		
	* Hard	* Hard carrying case (CA-06)1 PC		
Optional		* 1.413 mS Conductivity Standard		
Accessories	Solution	on CD-14		
	SD mem	ory card (2 GB)		
	AC to DC 9V adapter.			
	USB cable, USB-01.			
	RS232 cable, UPCB-02. Data Acquisition software,SW-U801-WIN.			
	Excel data Acquisition software, SE-E802.			

ELECTRICAL SPECIFICATIONS (23±5 ℃)

Conductivity (uS, mS)

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

compensation factor variable between 0 to 5.0% per C. The accuracy is specified under measurement value \leq 100 mS.

* mS - milli Simens * @ 23± 5℃

TDS (Total Dissolved Solids)

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

Temperature Compensation :

Automatic from 0 to 60 $^{\circ}$ (32 - 140 $^{\circ}$ F), with temperature

compensation factor variable between 0 to 5.0% per $^{\circ}$ C. The accuracy is specified under measurement value \leq 66,000 PPM. PPM - parts per million *@ 23 \pm 5 $^{\circ}$ C

Temperature

Function	Measuring Range	Resolution	Accuracy
$^{\circ}$ C	0 ℃ to 60 ℃	0.1 ℃	± 0.8 ℃
°F	32 °F to 140 °F	0.1 °F	± 1.5 °F
* @ 23± 5℃			

Salt

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

PATENT	CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0			
	Germany: Nr. 20 2008 016 337.4	JAPAN : 3151214	U.S.A. : Pending	

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