

***Bench type, SD Card real time data recorder
CD/TDS/Hardness/Resistivity***

CONDUCTIVITY METER

Model : BCT-4320SD

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

Bench type, SD Card real time data recorder CD/TDS/Hardness, Salt METER

CONDUCTIVITY METER

Model : BCT-4320SD

FEATURES

* Bench type CONDUCTIVITY METER
* Multi-function : Conductivity, TDS, Hardness, Resistivity, Salt.
* Conductivity : 20 uS/200 uS/2 mS/20 mS/200 mS.
* TDS : 13.20/132/1,320/13,200/132,000 ppm.
* Hardness : 10/100/1,000/10,000/100,000 ppm.
* Resistivity : 5 ohm-cm to 99.99 M ohm-cm.
* Salt : 0 to 12.0% salt (% weight).
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* Real time SD memory card Data logger, it Built-in Clock and Calendar, real time data recorder , sampling time set from 1 sec to 8 hour 59 min. 59 sec.
* Innovation and easy operation, computer is not need to setup extra software, after execute data logger, 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, then user can make the further data or graphic analysis by themselves.
* Conductivity measurement can select Temp. Coefficient of measurement solution.
* Separate probe, easy for operation of different measurement environment.
* Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water
* RS232/USB PC computer interface.
* LCD with green light backlight, easy reading.
* Can default auto power off or manual power off.
* Data hold, record max. and min. reading.
* Microcomputer circuit, high accuracy.
* ATC (automatic temperature compensation).
* Data hold, Record (Max., Min.).
* RS232/USB computer interface.
* SD card capacity : 1 GB to 16 GB.
* Pt glass electrode, CDPB-04 is included, available forConductivity/TDS/Hardness/ Resistivity/Salt, high performance for pure water low conductivity measurement.
* Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 56 mm x 97 mm LCD with green backlight (ON/OFF).	
Measurement Function	Conductivity, TDS, Hardness, Resistivity, Salt.	
Datalogger	Auto	1, 2, 5, 10, 30, 60, 120, 300 600, 1800, 3600 seconds. <i>@ Sampling time can set to 1 second, but memory data may loss.</i>
Sampling Time	Manual	Push the data logger button once will save data one time. <i>@ Set the sampling time to 0 second.</i> <i>@ Manual mode, can also select the 1 to 99 position (Location) no.</i>
Setting range		
Memory Card	SD memory card. 1 GB to 16 GB.	
Advanced setting	* SD memory card Format * 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	

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

Advanced setting	* Set temperature unit to ℃ or ℉ * Set CD temperature compensation factor * Set CD to TDS or TDS to CD, CD only
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
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	0 to 50 ℃ .
Operating Humidity	Less than 85% R.H.
Power Supply	Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.
Power Current	* w/o SD card and LCD Backlight is off : Approx. DC 14 mA. * When SD card save the data and LCD backlight is off. Approx. DC 34 mA. * If LCD backlight on, the power consumption will increase approx. 5 mA.
Weight	1400 g/3.08 LB.
Dimension	290 x 220 x 90 mm (11.5 x 8.7x 3.6 inch) <i>* Meter only</i>
Accessories Included	* Instruction manual..... 1 PC * Pt glass electrode, CDPB-04..... 1 PC It is available forConductivity/TDS/Hardness/ Resistivity/Salt, high performance for pure water low conductivity measurement.

ELECTRICAL SPECIFICATIONS (23± 5 ℃)

Conductivity (uS, mS)

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	
20 mS	2 to 20.00 mS	0.01 mS	
200 mS	20 to 200.0 mS	0.1 mS	<i>* F.S.: full scale</i>

* Temperature Compensation : Automatic from 0 to 60 ℃ (32 - 140 ℉), with temperature compensation factor variable between 0 to 5.0% per C.	
* The accuracy is specified under measurement value ≤ 100 mS.	
* mS - milli Simens * @ 23± 5℃	
* Probe, CDPB-04 is included as the standard accessory	

TDS (Total Dissolved Solids)

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	
20,000 PPM	1,320 to 13,200 PPM	10 PPM	
200,000 PPM	13,200 to 132,000 PPM	100 PPM	<i>* F.S.: full scale</i>

* Temperature Compensation : Automatic from 0 to 60 ℃ (32 - 140 ℉), with temperature compensation factor variable between 0 to 5.0% per C.	
* The accuracy is specified under measurement value ≤ 66,000 PPM.	
* PPM - parts per million * @ 23± 5℃	
* Probe, CDPB-04 is included as the standard accessory	

Temperature

Function	Measuring Range	Resolution	Accuracy
℃	0 ℃ to 60 ℃	0.1 ℃	± 0.8 ℃
℉	32 ℉ to 140 ℉	0.1 ℉	± 1.5 ℉
* @ 23± 5℃			

Salt

Probe	Pt glass electrode, CDPB-04 is included.		
Measurement Range	0 to 12 % salt (% weight).		
Resolution	0.01 % salt.		
Accuracy	± 0.5 % salt value @ 23± 5℃		
Temperature Compensation	Automatic from 0 to 60 ℃ (32 - 140 ℉),		
Probe Operating Temperature	0 to 60 ℃ .		

Hardness

Range	Measurement	Resolution	Accuracy
10 PPM	0 to 10.00 PPM	0.01 PPM	± (2 % F.S.+1d)
100 PPM	0 to 100 PPM	0.1 PPM	
1,000 PPM	100 to 1,000 PPM	1 PPM	
10,000 PPM	1,000 to 10,000 PPM	10 PPM	<i>* F.S.: full scale</i>
100,000 PPM	10,000 to 100,000 PPM	100 PPM	
* Probe, CDPB-04 is included as the standard accessory			

Resistivity

Range	Measurement	Resolution	Accuracy
auto range	5 ohm-cm to 99.99 M ohm-cm	1 ohm-cm to 0.01 M ohm-cm	± (2 % F.S.+1d) <i>* F.S.: full scale</i>
* Probe, CDPB-04 is included as the standard accessory			