

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

CONDUCTIVITY METER

Model : BCT-4320SD

ISO-9001, CE, IEC1010



Lutron

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

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| * 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). | |
| * 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 |
| Sampling Time | 1, 2, 5, 10, 30, 60, 120, 300 600, 1800, 3600 seconds. @ Sampling time can set to 1 second, but memory data may loss. |
| Setting range | 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 | * 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 |

| | |
|--------------------------|--|
| Advanced setting | * Set temperature unit to °C or °F * 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 °C. |
| 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) * Meter only |
| 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. |

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

| | |
|-----------------------------|--|
| 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°C |
| Temperature Compensation | Automatic from 0 to 60 °C (32 - 140 °F), |
| Probe Operating Temperature | 0 to 60 °C. |

Hardness

| Range | Measurement | Resolution | Accuracy |
|-------------|-----------------------|------------|---|
| 10 PPM | 0 to 10.00 PPM | 0.01 PPM | ± (2 % F.S.+1d) * F.S.: full scale |
| 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 | |
| 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) * F.S.: full scale |

* Probe, CDPB-04 is included as the standard accessory

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Conductivity (uS, mS)

| Range | Measurement | Resolution | Accuracy |
|--------|-----------------|------------|---|
| 200 uS | 0 to 200.0 uS | 0.1 uS | ± (2 % F.S.+1d) * F.S.: full scale |
| 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 | |

* Temperature Compensation :
Automatic from 0 to 60 °C (32 - 140 °F), 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°C
* 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) * F.S.: full scale |
| 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 | |

* Temperature Compensation :
Automatic from 0 to 60 °C (32 - 140 °F), 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°C
* Probe, CDPB-04 is included as the standard accessory

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