

*Bench type, RS232/USB, Data logger*



# CONDUCTIVITY METER, TDS

Model : BCT-4308

*ISO-9001, CE, IEC1010*



**LUTRON ELECTRONIC**

*The Art of Measurement*



# Bench type, RS232/USB, Data logger CONDUCTIVITY METER, TDS

Model : BCT-4308

## FEATURES

* Professional bench type meter with large size LCD display with green color backlight, easy reading.
* One meter for two purpose operation : Conductivity and TDS ( Total dissolved solids ), measurement.
* Conductivity : 200 uS/2 mS/20 mS/200 mS.
* Measurement unit can select uS/mS ( conductivity ) or ppm ( TDS )
* Conductivity measurement can select Temp. Coefficient of measurement solution.
* ATC for the conductivity/TDS measurement.
* Real time data logger ( record year, month, date, hour, minute, second ), 16,000 data logger.
* Auto data record, 16,000 Data logger no.
* Wide sampling time adjustment range from one second to 8 hours 59 minutes 59 seconds.
* Auto data logger, manual data logger.
* RS232 computer interface.
* Max., Min., Data hold.
* Can default auto power off or manual power off.
* DC 1.5V ( UM-3, AA ) x 8 PCs or DC 9V adapter in.
* 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 conditioning.

Operating Humidity	Less than 80% R.H.	
Power Supply	DC 1.5 V battery ( UM3 ) x 8 PCs, ( Heavy duty type ). DC 9V adapter input. <i>@ AC/DC power adapter is optional.</i>	
Power Consumption	Operation ( LCD backlight ON ) : Approx. DC 23 mA Operation ( LCD backlight OFF ) : Approx. DC 8 mA Power OFF ( only internal clock running ) : Approx. DC 1.8 uA.	
Weight * meter	1049 g/2.3 LB.	
Dimension @ Meter	Meter	225 X 125 X 64 mm
	Probe	( 8.86 X 4.92 X 2.52 inch )
Accessories Included	Instruction manual..... 1 PC Conductivity/TDS probe..... 1 PC	
Optional Accessories	* 1.413 mS Conductivity Standard Solution..... CD-14 * Carrying case..... CA-08 * AC to DC 9V adapter. * RS232 cable, UPCB-02. * USB cable, USB-01 * Data Acquisition software, SW-U801-WIN. * Data Logger software, SW-DL2005.	

## 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			

### 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			

### 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			

## GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 82 mm x 61 mm. * with green color backlight.
Measurement	* Conductivity ( uS, mS ) * TDS ( Total Dissolved Solids, PPM ) * Temperature ( °C, °F )
Temperature Compensation	Automatic from 0 to 60 °C ( 32 - 140 °F ), with temperature compensation factor variable between 0 to 5.0% per C.
Sampling Time of Data Logger	<i>Auto data logger :</i> 1 sec to 8 hour 59 min. 59 sec. <i>Manual data logger :</i> Set sampling time to 0 second.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Power off	Auto shut off saves battery life or manual off by push Button. <i>@ Can default auto power or manual power off.</i> <i>@ When default auto power function, power will off automatically after 10 minutes, if no Button be pressed.</i>
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	Main instrument 0 to 50 °C. Probe 0 to 60 °C.

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

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