

CONDUCTIVITY/TDS/SALT METER

Model : YK-22CTA

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

CONDUCTIVITY/TDS/SALT METER

Model : YK-22CTA

FEATURES

* One meter for one purpose operation : CD, TDS, Salt measurement.
* Conductivity : 200 uS/2 mS/20 mS/200 mS.
* Salt : 0 to 12 % salt (% weight).
* Conductivity measurement can select uS/mS or TDS
* Conductivity measurement can select Temp. Coefficient of measurement solution.
* ATC for the conductivity measurement.
* Measurement for conductivity and temperature at same time.
* 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.
* 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.
* Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTER interface.
* DC 1.5V (UM-3, AA) x 6 PCs or DC 9V adapter in.

GENERAL SPECIFICATIONS

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, Temperature, TDS(Total Dissolved Solids), Salt
Advanced setting	* Auto power OFF management * Set beep Sound ON/OFF * 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	* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional).
Power Current	* Normal operation (w/o LCD Backlight is OFF) : Approx. DC 14 mA. * If LCD backlight on, the power consumption will increase approx. 12 mA.
Weight	489 g/1.08 LB.
Dimension	177 x 68 x 45 mm (7.0 x 2.7 x 1.9 inch)
Accessories Included	* Instruction manual.....1 PC * Hard carrying case (CA-06).....1 PC * Conductivity/TDS/Salt probe, CDPB-03.....1 PC
Optional Accessories	* Pt Conductivity/TDS/Salt probe, CDPB-04 * 1.413 mS Conductivity Standard Solution, CD-14 * AC to DC 9V adapter. * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. * Excel Data Acquisition software, SW-e802

ELECTRICAL SPECIFICATIONS (23±5 °C)

A. Conductivity/TDS

Conductivity probe	Carbon rod electrode for long life, CDPB-03
Function	* 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.
Probe Operating Temp.	0 to 60 °C.
Probe Dimension	Round, 22 mm Dia. x 120 mm length.
Optional probe and accessories	* Pt Conductivity/TDS/Salt probe, CDPB-04 * 1.413 mS Conductivity Standard Solution, CD-14

1. 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			

2. 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			

3. 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			

B. Salt

Salt probe	Carbon rod electrode for long life.
Measurement Range	0 to 12 % salt (% weight).
Resolution	0.01 % salt.
Accuracy	0.5 % salt value * F.S. : full scale.
Temperature Compensation	Automatic from 0 to 60 °C (32 - 140 °F), with temperature compensation factor variable between 0 to 5.0% per C.
Probe Operating Temperature	0 to 60 °C.
Probe Dimension	Round, 22 mm Dia. x 120 mm length.
Optional probe and	* Pt Conductivity/TDS/Salt probe, CDPB-04

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

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