CONDUCTIVITY/TDS/SALT METERModel : YK-22CTAISO-9001, CE, IEC1010

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The Art of Measurement

CONDUCTIVITY/TDS/SALT METER

Model : YK-22CTA

FEATURE

- ✓ 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 SPECIFICATION

Custom one-chip of microprocessor LSI circuit.		
LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF).		
Conductivity, Temperature, TDS(Total Dissolved Solids), Salt		
* Auto power OFF management		
* Set beep Sound ON/OFF		
$*$ Set temperature unit to $\ ^\circ C$ or $\ ^\circ F$		
* Set CD temperature compensation factor		
* Set CD to TDS or TDS to CD, CD only		
Freeze the display reading.		
Maximum & Minimum value.		
Approx. 1 second.		
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.		
0 to 50 ℃.		
Less than 85% R.H.		
* 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).		
* Normal operation (w/o LCD Backlight is OFF) : Approx. DC 14 mA.		
* If LCD backlight on, the power consumption will increase approx. 12 mA.		
489 g/1.08 LB.		
177 x 68 x 45 mm (7.0 x 2.7x 1.9 inch)		
* Instruction manual1 PC		
* Hard carrying case (CA-06) 1 PC		
* Conductivity/TDS/Salt probe, CDPB-031 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 \pm 5 $^{\circ}$ 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	Automatic from 0 to 60 $^\circ\mathrm{C}$ (32 - 140 $^\circ\mathrm{F}$), with temperature compensation	
Compensation	factor variable between 0 to 5.0% per C.	
Probe Operating Temp.	0 to 60 ℃.	
Probe Dimension	Round, 22 mm Dia. x 120 mm length.	
Optional probe and	* Pt Conductivity/TDS/Salt probe, CDPB-04	
accessories	* 1.413 mS Conductivity Standard Solution, CD-14	

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	* F.S.: full scale
20 mS	2 to 20.00 mS	0.01 mS	
200 mS	20 to 200.0 mS	0.1 mS	
\ast Temperature Compensation : Automatic from 0 to 60 $^\circ\mathrm{C}$ (32 - 140 $^\circ\mathrm{F}$), with temperature			
compensa	tion factor variable betwe	en 0 to 5.0% per C.	
*The accura	acy is specified under mea	surement value \leq 1	.00 mS.
* mS - milli S	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)
2,000 PPM	132 to 1,320 PPM	1 PPM	* F.Sfull scale
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 $^\circ\!C$ (32 - 140 $^\circ\!F$), with temperature compensation factor variable between 0 to 5.0% per C.

*he accuracy is specified under measurement value \leq 66, 000 PPM.

* PPM - parts per million

* @ 23± 5℃

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. 0 to 12 % salt (% weight). **Measurement Range** 0.01 % salt. Resolution 0.5 % salt value * F.S. : full scale. Accuracy Automatic from 0 to 60 $^\circ\mathrm{C}$ (32 - 140 $^\circ\mathrm{F}$), with temperature Temperature Compensation compensation factor variable between 0 to 5.0% per C. **0 to 60** °C. **Probe Operating Temperature** 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.

YK-22CTA+1603

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