

CONDUCTIVITY/ TDS METER

+ PH meter

Model : YK-2001CT



1. FEATURES

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| * Conductivity/TDS (Total Dissolved Solids) Meter
+ PH Meter, multi function & intelligent features. |
| * Conductivity meter is included two ranges : 2 mS, 20 mS.
TDS meter is with 2 ranges : 2,000 PPM, 20,000 PPM.
Temperature measurement range is 0 - 60 °C / 32 - 140 °F. |
| * Conductivity/TDS meter build in automatic temperature compensation circuit, adjustable between 0 to 5.0% per °C. |
| * Conductivity/TDS meter use carbon rod electrode for long life, separte pobe convenient for remote measurement. |
| * PH meter is with mV (millivolt) function for mV measurement (Be plugged with optinal ORP probe ORP-04 to be a professional ORP meter) |
| * PH meter with wide manual temperature compensation adjustment and optional ATC (Automatic Temp. Compensation) probe is available. |
| * Microprocessor circuit, intelligent function. |
| * Multi-display, show dissolved oxygen (PH) & temp. at the same time. |
| * Records Maximum and Minimum readings with recall. |
| * Data hold. |
| * Auto shut off saves battery life. |
| * RS 232 PC serial interface. |
| * Temperature function with °C & °F display unit. |

2. SPECIFICATIONS

2-1 General specifications

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	51 mm x 32 mm, dual function LCD display, 15 mm (0.6") digit size.	
Memory Recall	Records Maximum and Minimum readings with recall.	
Data hold	Hold the current reading value on the display.	
Memory Recall	Maximum and Minimum reading values can be saved and retrieved by record function.	
Power off	Auto shut off saves battery life, or manual off by push button.	
Data Output	RS 232 computer serial interface.	
Overload indication	"- - - -" symbol on the display.	
Operating Temperature	0 to 50 °C - main instrument. 0 to 60 °C - Conductivity/CT probe only.	
Operating Humidity	Max. 80% RH.	
Sampling Time	Approx. 0.8 second.	
Power Supply	006P DC 9V battery (Alkaline or Heavy duty type).	
Power Current	Meter only	Approx. DC 4.2 mA.
	Meter + CT probe	Approx. DC 6.0 mA.
Weight	250 g/0.55 LB (battery included). * Mian meter only, not include probe.	
Size	<i>Mian meter :</i> 195 x 68 x 30 mm (7.6 x 2.6 x 1.2 inch).	
	<i>Conductivity/CT probe :</i> Round, 22 mm Dia. x 120 mm length.	
Accessories included	Conductivity/TDS probe..... 1 PC. Operation manual..... 1 PC. Carrying case, CA-06..... 1 PC.	
Optional Accessories	PH electrode.....PE-03, PE-11, PE-01	
	ATC probe for PH meter..... YK-200PATC	
	ORP electrode..... ORP-04	
	RS232 cable, UPCE-02..... UPCE-02	
	Application Software.....SW-U801-WIN	

2-2 Conductivity/TDS meter specifications

Measurement	Conductivity : 2 ranges 2 mS, 20 mS.
	TDS : 2 ranges 2,000 PPM, 20,000 PPM.
	Temperature: 0 - 60 °C / 32 - 140 °F.
Temperature Compensation	Automatic from 0 to 60 °C (32 - 140 °F), with temperature compensation factor variable between 0 to 5.0% per C.

A. Conductivity accuracy (23 ± 5°C)

Range	Measurement	Resolution	Accuracy
2 mS	0.2 to 2.000 mS	0.001 mS	± (3 % F.S. + 1 d)
20 mS	2 to 20.00 mS	0.01 mS	* F.S. - Full scale
* mS - milli Simens			

B. TDS (Total Dissolved Dolids) accuracy (23 ± 5°C)

Range	Measurement	Resolution	Accuracy
2,000 PPM	132 to 1,320 PPM	1 PPM	± (3 % F.S. + 1 d)
20,000 PPM	1,320 to 13,200 PPM	10 PPM	
* PPM - parts per million			

C. Temperature accuracy (23 ± 5°C)

Measuring Range	0 °C to 60 °C / 32 °F to 140 °F
Resolution	0.1 °C / 0.1 °F
Accuracy	0.8 °C / 1.5 °F

2-3 PH meter specifications

Measurement	PH	0 to 14 PH
	mV	-1999 mV to 1999 mV
Resolution	PH	0.01 PH
	mV	1 mV
Accuracy * Meter only	PH	± (0.02 PH + 2 d)
	mV	± (0.5% + 2 d)
Input Impedance	10 1 ohm	
Temperature Compensation for pH measurement	Manual	0 to 100 °C, be adjusted by push button on front panel.
	Automatic (ATC)	With the optional TEMP. probe (YK-200ATC) 0 to 65 °C.
pH Calibration	PH7, PH4, and PH10, 3 points calibration ensure the best linearity and accuracy.	
PH Electrode	Optional, Any PH electrode with BNC connector.	