

200 μ S/2 mS/20 mS/200 mS, Real time data logger

CODUCTIVITY METER

Model : YK-2005CD

ISO-9001, CE, IEC1010

www.yalab.com.tw

02-2389-0101



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The Art of Measurement

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FEATURE

- ✓ Innovative feature with built-in automatic temperature compensation factor adjustable between 0 to 5.0% per °C .
- ✓ Wide range, 200 uS/2 mS/20 mS/200 mS.
- ✓ Selecting " 0% per °C " of Temp. Coefficient Adjust, allows you to take uncompensated conductivity readings (absolute conductivity measurement).
- ✓ Temperature compensation range : 0 to 50 °C .
- ✓ Carbon rod electrode for long life.
- ✓ Conductivity measurement (uS, mS) or TDS (Total Dissolved Solids, PPM) can be selected.
- ✓ Auto range or manual range can be selected.
- ✓ Real time data logger, build in clock (hour-min.-sec., year-month-date).
- ✓ Auto data record, 16,000 Data logger no.
- ✓ Wide sampling time adjustment range from two seconds to 8 hours 59 minutes 59 seconds.
- ✓ RS232 computer interface.
- ✓ Can default auto power off or manual power off.
- ✓ Super large LCD display with contrast adjustment for best viewing angle.
- ✓ Data hold, record max. and min. reading.
- ✓ Power by UM3 (1.5 V) x 4 batteries or DC 9V adapter.
- ✓ RS232 PC serial interface.
- ✓ 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.

GENERAL SPECIFICATION

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 58 mm x 34 mm.
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.
Conductivity Probe Structure	Carbon rod electrode for long life.
Sampling Time of Data Logger	2 sec to 8 hour 59 min. 59 sec. @ Auto datalogger
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. @ Can default auto power or manual power off. @ When default auto power function, power will off automatically after 10 min., if no button be pressed.
Sampling Time of display	Approx. 1 second.
Data Output	RS 232 PC serial interface.
Operating Temperature	0 to 50 °C . - Main instrument.

	0 to 60 °C - Conductivity probe only.
Operating Humidity	Less than 80% R.H.
Power Supply * main instrume	DC 1,5 V battery (UM3) x 4 PCs, (Heavy duty type). DC 9V adapter input. @ AC/DC power adapter is optional.
Power Current	Approx. DC 15.2 mA
Weight	425 g/ 0.94 LB. @ Battery is included.
Dimension	Main instrument : 203 x 76 x 38 mm Conductivity PROBE : Round, 22 mm Dia. x 120 mm length.
Accessories Included	Instruction manual..... 1 PC Conductivity probe..... 1 PC DC 3V silver battery, CR2032..... 1 PC Carrying case.....1 PC
Optional Accessories	* 1.413 mS Conductivity Standard Solution * 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)

A. Conductivity

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

B. 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

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

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

YK-2005CD +0905