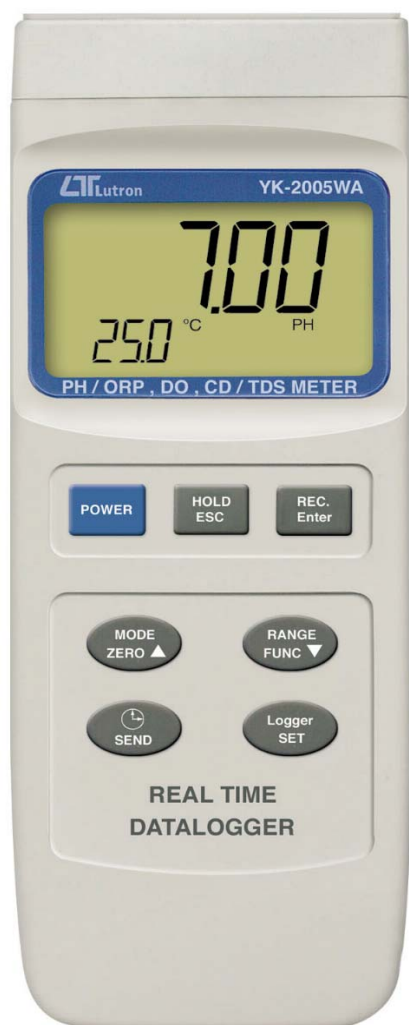


PH/ORP, DO, CD/TDS METER

Model : YK-2005WA

ISO-9001, CE, IEC1010

FEATURES



- * One meter for multi purpose operation :
PH/ORP, DO, CD/TDS METER
- * pH : 0 to 14.00 pH, ORP : ± 1999 mV.
- * Conductivity : 200 μ S/2 mS/20 mS/200 mS.
- * Dissolved oxygen : 0 to 20.0 mg/L.
- * ATC (automatic temperature compensation).
- * Real time data logger (record year, month, date, hour, minute, second), 16,000 data logger.
- * Max., Min., Data hold.
- * RS-232 computer interface
- * Optional electrode :
pH, ORP, CD/TDS, DO, ATC probe.
- * Jumbo LCD display.
- * DC 1.5V (UM-3, AA) x 4 PCs or
DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



LUTRON ELECTRONIC

The Art of Measurement

CONDUCTIVITY METER

Model : YK-2005WA

1. FEATURES

* One meter for multi purpose operation : PH/ORP, CD/TDS, Dissolved Oxygen.
* pH : 0 to 14.00 pH, ORP : $\pm$ 1999 mV.
* Conductivity : 200 uS/2 mS/20 mS/200 mS.
* Dissolved oxygen : 0 to 20.0 mg/L.
* Real time data logger (record year, month, date, hour, minute, second), 16,000 data logger.
* 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 one second to 8 hours 59 minutes 59 seconds.
* RS232 computer interface.
* MAX, MIN, Data hold.
* RS-232 computer interface
* Can default auto power off or manual power off.
* Optional PH, ORP, CD/TDS, Dissolved Oxygen and ATC probe.
* DC 1.5V (UM-3, AA) x 4 PCs or DC 9V adapter in.
* PH meter function can select PH or ORP.
* PH measurement can select ATC or manual temperature adjustment.
* PH measurement can make the auto calibration for pH 7, pH 4 and pH 10 or other value.
* Conductivity measurement can select uS/mS or TDS
* Conductivity measurement can select Temp. Coefficient of measurement solution.
* ATC for the conductivity measurement.
* Dissolved oxygen meter use the polar graphic type oxygen probe with temperature sensor, high precision measurement for Dissolved Oxygen (DO) and temperature measurement.
* Heavy duty dissolved oxygen probe, probe head can connect with BOD bottle.
* DO use the automatic Temp. compensation.
* DO meter build in " % SALT " & " Mountain Height " compensation value adjustment.
* Super large LCD display with contrast adjustment for best viewing angle.
* 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 SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 58 mm x 34 mm.
Measurement	PH/ORP Conductivity/TDS(Total Dissolved Solids) Dissolved Oxygen
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.
Operating Humidity	Less than 80% R.H.
Power Supply * main instrument	DC 1.5 V battery (UM3) x 4 PCs, (Heavy duty type). DC 9V adapter input. @ AC/DC power adapter is optional.
Power Current	Operation : Approx. DC 28 mA Clock (power off) : Approx. DC 1 uA.
Weight	365 g/ 0.8 LB. @ Battery is included.
Dimension	203 x 76 x 38 mm
Accessories Included	Instruction manual..... 1 PC Hard carrying case (CA-06).....1 PC
Optional Accessories	* PH electrode.....PE-03, PE-11, PE-01, PE06HD PE-04HD, PE-05T, PE-03K7 * ATC (Automatic Temperature Probe).....TP-07 * pH 7 buffer solution.....PH-07 * pH 4 buffer solution.....PH-04 * Conductivity probe.....CDPB-03 * 1.413 mS Conductivity Standard Solution.....CD-14 * Oxygen probe.....OXPB-11 * Spare Probe head with Diaphragm setOXHD-04 * Probe-filling Electrolyte.....OXEL-03 * AC to DC 9V adapter. * RS232 cable, UPGB-02. * USB cable, USB-01 * Data Acquisition software, SW-U801-WIN. * Data Logger software, SW-DL2005.

ELECTRICAL SPECIFICATIONS (23 $\pm$ 5 °C)

A. PH/mV

PH Electrode	Optional, Any PH electrode with BNC connector.	
Measurement	PH	0 to 14 PH
	mV	-1999 mV to 1999 mV
Input Impedance	10 ¹² ohm	
Temperature Compensation for pH measurement	Manual	0 to 100 °C, be adjusted by push button on front panel.
	Automatic (ATC)	With the optional temperature probe (TP-07) 0 to 65 °C.
pH Calibration	PH7, PH4, and PH10, 3 points calibration ensure the best linearity and accuracy.	
Optional probe and accessories	* PH electrode.....PE-03, PE-11, PE-01, PE06HD PE-04HD, PE-05T, PE-03K7	
	* ATC (automatic temperature probe).....TP-07	
	* pH 7 buffer solution.....PH-07	
	* pH 4 buffer solution.....PH-04	
	* ORP electrode.....ORP-14	

2-2 Electrical Specifications (23 $\pm$ 5 °C)

Measurement	Range	Resolution	Accuracy
PH	0 to 14 PH	0.01 PH	$\pm$ (0.02 PH + 2 d)
mV	0 to 1999 mV	1 mV	$\pm$ (0.5% + 2 d)
* PH accuracy is based on calibrated meter only.			

B. Conductivity

Conductivity probe	Optional, Carbon rod electrode for long life.
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 Temperature	0 to 60 °C.
Probe Dimension	Round, 22 mm Dia. x 120 mm length.
Optional probe and accessories	* Conductivity probe.....CDPB-03 * 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			

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	$\pm$ 0.8 °C
°F	32 °F to 140 °F	0.1 °F	$\pm$ 1.5 °F
* @ 23 $\pm$ 5°C			

C. Dissolved oxygen

Oxygen Probe	Optional, The polarographic type oxygen probe with		
Measurement & Range	Dissolved Oxygen	0 to 20.0 mg/L (liter) .	
	Oxygen in Air	0 to 100.0 %.	
	Temperature	0 to 50 °C .	
Resolution	Dissolved Oxygen	0.1 mg/L.	
	Oxygen in Air	0.1 % O2 .	
	Temperature	0.1 °C .	
Accuracy (23± 5 °C)	Dissolved Oxygen	± 0.4 mg/L.	
	Oxygen in Air	± 0.7% O2.	
	Temperature	± 0.8 °C/1.5 °F.	
Probe Compensation & Adj.	Temperature	0 to 50 °C , Automatic	
	Salt	0 to 39 % Salt	
	Height (M. T.)	0 to 8900 meter	
Probe Weight	335 g/0.74 LB (batteries & probe included)		
Probe Size	190 mm x 28 mm Dia. (7.5" x 1.1" Dia.)		
Optional Accessories	* Oxygen probe.....OXPB-11		
	* Spare Probe head with Diaphragm setOXHD-04		
	* Probe-filling Electrolyte..... OXEL-03		