

# DISSOLVED OXYGEN METER

+ PH METER

*Model : YK-2001DO*

## 1. GENERAL DESCRIPTIONS

This Digital Oxygen Meter is supplied with a polarographic type probe with an incorporated temp. sensor which serves for precision Dissolved Oxygen(DO), Temp. measurement.

Applications for Aquarium, Medical research, Agriculture, Fish hatcheries, Laboratory, Water conditioning, Mining industrial, Schools & Colleges, Quality control...



## 2. FEATURES

* Dissolved Oxygen Meter + PH Meter, 2 in 1 .
* The polarographic type oxygen probe with an incorporated temp. sensor, high precision measurement for Dissolved Oxygen(DO) & Temperature measurement.
* DO function, Automatic temp. compensation from 0 to 50 °C for sensor.
* 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.

### 3. SPECIFICATIONS

#### 3-1 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 °C to 50 °C (32 °F to 122 °F).	
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 + DO probe	Approx. DC 5.2 mA.
Weight	250 g/0.55 LB ( battery included ). * <i>Mian meter only, not include probe.</i>	
Size	195 x 68 x 30 mm ( 7.6 x 2.6 x 1.2 inch ). * <i>Mian meter only.</i>	
Accessories included	Oxygen probe..... 1 PC. Operation manual.....1 PC. Spare Diaphragm(5 PCs per pack) OXDP-02..... 1 set. Probe-filling Electrolyte OXEL-03..... 1 set. Carrying case, CA-06..... 1 PC.	
Optional Accessories	DO probe spare diaphragm ( 5 PCs per pack ) .....OXDP-02	
	DO probe-filling electrolyte .....OXEL-03	
	PH electrode.....PE-03, PE-11, PE-01	
	ATC probe for PH meter..... YK-200PATC	
	ORP electrode..... ORP-04	
	RS232 cable, UPCB-02..... UPCB-02	
Application Software.....SW-U801-WIN		

### 3-2 Dissolved oxygen meter specifications

Measurement & Range	Dissolved Oxygen	0 to 20.0 mg/L(liter).
	Temperature	0 to 50 °C.
Resolution Accuracy (23 ± 5 °C)	Dissolved Oxygen	0.1 mg/L.
	Temperature	0.1 °C.
	Dissolved Oxygen	0.4 mg/L.
	Temperature	0.8 °C/1.5 °F.
Sensor Structure	The polarographic type oxygen probe with an incorporated temperature sensor.	
Probe Temp. Compensation	0 to 50 °C, Automatic.	
Size of DO probe	125 mm x 20 mm Dia.(4.9" x 0.8" Dia.)	

### 3-3 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 <sup>11</sup> 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.	