pH/ORP, DO, CD/TDS, SALT METER

Model: YK-2001PHA

ISO-9001, CE, IEC1010





Conductivity/TDS/Salt probe CDPB-03 (included)



The Art of Measurement

pH/ORP, DO, CD/TDS, SALT METER

FEATURES				
* One meter for multi purpose operation :				
pH/ORP, CD/TDS, Dissolved Oxygen, Salt measurement.				
pH: 0 to 14.00 pH, ORP: ± 1999 mV.				
Conductivity: 200 uS/2 mS/20 mS/200 mS.				
Dissolved oxygen: 0 to 20.0 mg/L.				
* Salt : 0 to 12 % salt (% weight).				
* Optional pH, ORP, CD/TDS/Salt, Dissolved Oxygen and				
ATC probe.				
* DC 9V (006 P) 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.				
* 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 DC 9V battery (006 P) or DC 9V adapter.				

GENERAL	SPECIFICATIONS

* RS232/USB PC COMPUTER interface.

Circuit	Custom one-chip of microprocessor LSI		
	circuit.		
Display	LCD size : 52 mm x 38 mm		
	LCD with green backlight (ON/OFF).		
Measurement	pH/ORP		
Function	Conductivity/TDS(Total Dissolved Solids)		
	Dissolved Oxygen		
	Salt		
Advanced	* Auto power OFF management		
setting	* Set beep Sound ON/OFF		
· ·	* Set temperature unit to °C or °F		
	* Set DO salt% compensation value		
	* Set DO height (meter) compensation value		
	* Set CD temperature compensation factor		
	* Set CD to TDS or TDS to CD, CD only		
	* Set pH manual Temp. compensation value		
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value.		
Sampling Time	Approx. 1 second.		
of Display			
Data Output	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.		
Operating	0 to 50 ℃.		
Temperature			
Operating	Less than 85% R.H.		
Humidity			
Power Supply	* Alkaline or heavy duty DC 9V (006 P)		
	battery or equivalent.		
	* DC 9V adapter input. (AC/DC power adapter		
	is optional).		
Power Current	Normal operation (LCD Backlight is OFF) :		
	Approx. DC 14 mA.		
	* If LCD backlight on, the power		
	consumption will increase approx. 12 mA.		
ii	I .		

Weight	489 g/1.08 LB.
Dimension	177 x 68 x 45 mm
	(7.0 x 2.7x 1.9 inch)
Accessories	* Instruction manual 1 PC
Included	* Conductivity/TDS/Salt probe, CDPB-031 PC
Optional	* Hard carrying case, CA-06.
Accessories	* pH electrode
	PE-03, PE-11, PE-01, PE06HD
	PE-04HD, PE-03K7
	* ATC probe (Automatic Temperature
	Probe)TP-07
	* pH 7 buffer solution pH-07
	* pH 4 buffer solutionpH-04
	* Pt type Conductivity/TDS probe,
	Salt probeCDPB-04
	* 1.413 mS Conductivity Standard
	SolutionCD-14
	* Oxygen probeOXPB-11
	* Spare Probe head with DiapHragm set
	OXHD-04
	* Probe-filling ElectrolyteOXEL-03
	* ORP ElectrodeORP-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±5 ℃)

1. pH/mV

Optional

probe and

accessories

рН	Optional,		
Electrode	Any pH electrode with BNC connector.		
Measurement	pН	0 to 14 pH	
	mV (ORP)	-1999 mV to 1999 mV	
Input	10^12 ohm	1	
Impedance			
Temperature	Manual 0 to 100 ℃, be adjusted by		
Compensation	push button on front panel.		
for pH	Automatic With the optional temperature		
measurement	(ATC) probe (TP-07)		
	0 to 65 ℃.		
рН	pH7, pH4, and pH10, 3 points calibration		
Calibration	ensure the best linearity and accuracy.		

pH electrode..PE-03, PE-11, PE-01, PE06HD PE-04HD, PE-03K7

PH-04

. ORP-14

pH	0 to 14 pH	0.01 pH	± (0.02 pH + 2 d)
mV	-1999 to 1999 mV	1 mV	± (0.5% + 2 d)
* pH accuracy is based on calibrated meter only.			

* ORP electrode.....

ATC (automatic temperature

pH 7 buffer solution..... pH 4 buffer solution....

2. Conductivity/TDS

Conductivity	Carbon rod electrode for long life, CDPB-03		
probe	* Included		
Function	* Conductivity (uS, mS)		
	* TDS (Total Dissolved Solids, PPM)		
	* Temperature (°C,°F)		
Temperature	Automatic from 0 to 60 $^{\circ}\mathrm{C}$ (32 - 140 $^{\circ}\mathrm{F}$),		
Compensation	with temperature compensation factor		
	variable between 0 to 5.0% per C.		
Probe	0 to 60 ℃.		
Operating			
Temp.			
Probe	Round, 22 mm Dia. x 120 mm length.		
Dimension			
Optional	* Pt Conductivity/TDS/Salt probe, CDPB-04		
probe and	* 1.413 mS Conductivity Standard		
accessories	Solution, CD-14		

a. Conductivity (uS, mS)

Range	Measurement	Resolution	Accuracy
200 uS	0 to 200.0 uS	0.1 uS	
2 mS	0.2 to 2.000 mS	0.001 mS	± (2 % F.S.+ 1d)
20 mS	2 to 20.00 mS	0.01 mS	* F.S.: full scale
200 mS	20 to 200.0 mS	0.1 mS	

- * Temperature Compensation :
- Automatic from 0 to 60 $^{\circ}\!\mathbb{C}\,$ (32 140 $^{\circ}\!\mathbb{F}$), 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℃

b. TDS (Total Dissolved Solids)

Range	Measurement	Resolution	Accuracy
200 PPM	0 to 132 PPM	0.1 PPM	
2,000 PPM	132 to 1,320 PPM	1 PPM	± (2% F.S.+1d)
20,000 PPM	1,320 to 13,200 PPM	10 PPM	* F.S
200,000 PPM	13,200 to 132,000 PPM	100 PPM	full scale

- * Temperature Compensation :
- Automatic from 0 to 60 $^{\circ}\mathrm{C}$ (32 140 $^{\circ}\mathrm{F}$), with temperature compensation factor variable between 0 to
- * he accuracy is specified under measurement value ≤ 66, 000 PPM.
- * PPM parts per million
- * @ 23± 5℃

c. Temperature

	Function	Measuring Range	Resolution	Accuracy
	$^{\circ}$	0 ℃ to 60 ℃	0.1 ℃	± 0.8 ℃
	°F	32 °F to 140 °F	0.1 °F	± 1.5 °F
* @ 23± 5℃				

3. Salt

Salt	Carbon rod electrode for long life, CDPB-03
probe	* Included
Measurement	0 to 12 % salt (% weight).
Range	
Resolution	0.01 % salt.
Accuracy	± 0.5 % salt value
	* F.S. : full scale.
Temperature	Automatic from 0 to 60 °C (32 - 140 °F),
Compensation	with temperature compensation factor
	variable between 0 to 5.0% per C.
Probe	0 to 60 ℃.
Operating	
Temperature	
Probe	Round, 22 mm Dia. x 120 mm length.
Dimension	
Optional	* Pt Conductivity/TDS/Salt probe, CDPB-04.
probe and	

4. Dissolved oxygen

Oxygen	Optional, OXPB-11			
Probe	The polarographic type oxygen probe .			
Measurement	Dissolved Oxygen	0 to 20.0 mg/L (liter).		
& Range	Oxygen in Air	0 to 100.0 %.		
	Temperature	0 to 50 ℃.		
Resolution	Dissolved Oxygen	0.1 mg/L.		
	Oxygen in Air	0.1 % O2 .		
	Temperature	0.1 ℃.		
Accuracy	Dissolved Oxygen	± 0.4 mg/L.		
(23±5°C)	Oxygen in Air	± 0.7% O2.		
	Temperature	± 0.8 ℃/1.5 °F.		
Probe	Temperature	0 to 50 ℃,		
Compensation	Automatic			
& Adj.	Salt	0 to 50 % Salt		
	Height (M. T.)	0 to 8900 meter		
Probe Weight	335 g/0.74 LB			
	* Battery and prob	le included .		
Probe Size	190 mm x 28 mm E	Dia.		
	(7.5" x 1.1" Dia.)			
Optional	* Oxygen probe	* Oxygen probeOXPB-11		
Accessories	* Spare Probe head with Diaphragm set			
		OXHD-04		
	* Probe-filling Elect	* Probe-filling ElectrolyteOXEL-03		
		1607-YK2001PHA		

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