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







**LUTRON ELECTRONIC** 



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.
* RS232/USB PC COMPUTER interface.

GENERAL	SPECIFICATIONS

LCD size : 52 mm x 38 mm			
Conductivity/TDS(Total Dissolved Solids)			
Dissolved Oxygen			
* Set beep Sound ON/OFF			
ue			
ter			

Weight	489 g/1.08 LB.
Dimension	177 x 68 x 45 mm
	(7.0 x 2.7x 1.9 inch)
Accessories	* Instruction manual
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 solutionpH-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	
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pН	Optional,			
Electrode	Any pH ele	ctrode with BNC connector.		
Measurement	pН	0 to 14 pH		
	mV (ORP)	-1999 mV to 1999 mV		
Input	10^12 ohn	n		
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 ℃.		
pН	pH7, pH4, and pH10, 3 points calibration			
Calibration	ensure the	ensure the best linearity and accuracy.		
Optional	* pH electrodePE-03, PE-11, PE-01, PE06HD			
probe and	PE-04HD, PE-03K7			
accessories	* ATC ( automatic temperature			
	probe )TP-07			
	* pH 7 buffer solutionPH-07			
	* pH 4 buffer solution PH-04			
	* ORP electrodeORP-14			

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

#### 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 $^{\circ}$ C (32 - 140 $^{\circ}$ 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
$^{\circ}$ C	0 ℃ to 60 ℃	0.1 ℃	± 0.8 ℃
°F	32 °F to 140 °F	0.1 °F	± 1.5 °F
* @ 23+ 5°	r		

#### 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 % 02 .
	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 proble included .	
Probe Size	190 mm x 28 mm Dia.	
	( 7.5" x 1.1" Dia. )	
Optional	* Oxygen probeOXPB-11	
Accessories	* Spare Probe head with Diaphragm set	
	OXHD-04	
	* Probe-filling ElectrolyteOXEL-03	
		1607-YK2001PHA

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