

*Bench type, SD Card real time data recorder*

# DISSOLVED OXYGEN METER

Model : BDO-5513SD

*ISO-9001, CE, IEC1010*



Probe  
OXPB-11  
is included.



**Lutron**



**LUTRON ELECTRONIC**

*The Art of Measurement*

**Bench type, SD Card real time data recorder**  
**DISSOLVED OXYGEN METER**  
**Model : BDO-5513SD**

**FEATURES**

* Bench type pH/ORP METER.
* Multi-function : Dissolved oxygen, Oxygen in air, Temperature.
* Dissolved oxygen : 0 to 20.0 mg/L.
* 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 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
* RS232/USB PC computer interface.
* 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.
* ATC ( automatic temperature compensation ).
* Data hold, Record ( Max., Min. ).
* RS232/USB computer interface.
* SD card capacity : 1 GB to 16 GB.
* Power by DC 1.5 V ( AA/UM-3 alkaline type ) battery x 6 PCs or DC 9V adapter in.
* Electrode included : Dissolved oxygen probe.

**GENERAL SPECIFICATIONS**

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 56 mm x 97 mm LCD with green backlight ( ON/OFF ).	
Measurement Function	Dissolved Oxygen, Oxygen in air, Temperature	
Datalogger Sampling Time Setting range	Auto	1 sec to 8 hour 59 min. 59 sec. @ Sampling time can set to 1 second, but memory data may loss.
	Manual	Push the data logger button once will save data one time. @ Set the sampling time to 0 second. @ Manual mode, can also select the 1 to 99 position ( Location ) no.
Advanced setting	* Auto power OFF management * Set beep Sound ON/OFF * Set temperature unit to °C or °F * Set DO salt% compensation value * Set DO height ( meter ) compensation value * Set DO height ( feet ) compensation value	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time of Display	Approx. 1 second.	

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 Temperature	0 to 50 °C.	
Operating Humidity	Less than 85% R.H.	
Power Supply	Power by DC 1.5 V ( AA/UM-3 alkaline type ) battery x 6 PCs or DC 9V adapter in.	
Power Current	* w/o SD card and LCD Backlight is off : Approx. DC 14 mA. * When SD card save the data and LCD backlight is off. Approx. DC 34 mA. * If LCD backlight on, the power consumption will increase approx. 5 mA.	
Weight	1400 g/3.08 LB.	
Dimension	290 x 220 x 90 mm ( 11.5 x 8.7x 3.6 inch ) * Meter only	
Accessories Included	* Operation manual.....1 PC. * Oxygen probe ( OXPB-11 ).....1 PC. * Spare Probe head with Diaphragm OXHD-04.....2 set * Probe-filling Electrolyte OXEL-03.....1 set	
Optional probe and accessories	* Oxygen probe.....OXPB-11 * Spare Probe head with Diaphragm set.....OXHD-04 * Probe-filling Electrolyte.....OXEL-03 * RS232 cable.....UPCB-02 * USB cable.....USB-01 * Data Acquisition software .....SW-U801-WIN * AC to DC 9V adapter * SD memory card ( 4G ).	

**ELECTRICAL SPECIFICATIONS (23± 5 °C)**

Oxygen Probe	Probe, OXPB-11 is included. The polarographic type oxygen probe with temperature sensor.	
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 % O <sub>2</sub> .
	Temperature	0.1 °C.
Accuracy (23± 5 °C)	Dissolved Oxygen	± 0.4 mg/L.
	Oxygen in Air	± 0.7% O <sub>2</sub> .
	Temperature	± 0.8 °C/1.5 °F.
Probe Compensation & Adj.	Temperature	0 to 50 °C , Automatic
	Salt	0 to 50 % Salt
	Height ( M. T. )	0 to 8900 meter
Probe Weight	230 g/0.51 LB .	
Probe Size	190 mm x 28 mm Dia. ( 7.5" x 1.1" Dia. )	

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

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