

SD Card, real time data logger, Patent

DISSOLVED OXYGEN METER

Model : DO-5512SD

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

SD Card real time data logger

DISSOLVED OXYGEN METER

Model : DO-5512SD

FEATURES

* Precision Dissolved Oxygen measurement
* 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 use the automatic Temp. compensation.
* DO meter build in " % SALT " & " Mountain Height " compensation value adjustment.
* Separate probe, easy for operation of different measurement environment.
* Real time SD memory card Datalogger, it Built-in Clock and Calendar, real time data recorder , sampling time set from 1 sec to 8 hour 59 min. 59 sec.
* Manual datalogger is available (set the sampling time to 0), during execute the manual datalogger function, it can set the different position (location) No. (position 1 to position 99).
* Innovation and easy operation, computer is not need to setup extra software, after execute datalogger, just take away the SD card from the meter and plug in the SD card into the computer, it can down load the all the measured value with the time information (year/month/date/ hour/minute/second) to the Excel directly, then user can make the further data or graphic analysis by themselves.
* SD card capacity : 1 GB to 16 GB.
* 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 UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTER interface.
* Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning.

SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF).
Measurement	Dissolved Oxygen Air oxygen (for reference only)
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 ₂ . Temperature 0.1 °C .
Accuracy (23± 5 °C)	Dissolved Oxygen ± 0.4 mg/L. Oxygen in Air ± 0.7% O ₂ . 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
Oxygen Probe	The polarographic type oxygen probe with temp. sensor.
Memory Card	SD memory card. 1 GB to 16 GB.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.

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	* SD memory card Format * Set clock time (Year/Month/Date, Hour/Minute/ Second) * Set sampling time * Auto power OFF management * Set beep Sound ON/OFF * Decimal point of SD card setting * Set temperature unit to °C or °F * Set DO salt% compensation value * Set DO height (meter) compensation value * Set DO height (feet) compensation 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	* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional).	
Power Current	Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 14 mA. When SD card save the data and LCD Backlight is OFF) : Approx. DC 37 mA. * If LCD backlight on, the power consumption will increase approx. 12 mA.	
Weight	Meter	489 g/1.08 LB.
	Probe	335 g/0.74 LB
Dimension	Meter	177 x 68 x 45 mm (7.0 x 2.7x 1.9 inch)
	Probe	190 mm x 28 mm Dia. (7.5" x 1.1" Dia.)
Accessories Included	* Oxygen probe (OXPB-11).....1 PC. * Hard carrying case (CA-06).....1 PC. * Operation manual.....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 softwareSW-U801-WIN * AC to DC 9V adapter	

PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 Germany : Nr. 20 2008 016 337.4	TAIWAN : M 358970 M 359043 JAPAN : 3151214	U.S.A. : Pending
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* Appearance and specifications listed in this brochure are subject to change without notice.

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