

DISSOLVED OXYGEN CONTROLLER/MONITOR

Model : PDO-8220

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

DISSOLVED OXYGEN CONTROLLER/MONITOR

Model : PDO-8220

FEATURES

* One meter for multi purpose operation : Dissolved Oxygen, Air Oxygen, 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 use the automatic Temp. compensation.
* DO meter build in " % SALT " & " Mountain Height " compensation value adjustment.
* Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning.
* O2 calibration is easily to be done by push button on the front panel.
* Build in DO control relay and the Temp. control relay.
* Relay will be make action (On/Off) when the reading value reach high limit or low limit value.
* Temperature Offset value setting.
* Hysteresis value setting for high and low control.
* °C, °F temp. unit setting with default.
* Large red LED display, high brightness and easy to read.
* RS232 computer interface, send out the DO and the temperature data at the same time.
* Optional data acquisition software.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Standard 96 X 48 mm DIN case.

2-1 General Specifications

Display	4 digits red LED, digit size : 14 mm.	
Circuit	Custom chip of microprocessor LSI circuit.	
Range	Dissolved oxygen	0 to 50 mg/L
	Temp.	0 to 50 °C
Sampling Time	Approx. 1 second.	
Setting value	1. High limit value setting. 2. Low limit value setting. 3. Hysteresis value setting. 4. Temp. Offset value setting. * 1, 2, 3 Setting for DO and Temp. function.	
Relay outputs	Number	2 relays
	Function	Relay 1 : DO control relay. Relay 2 : Temperature control relay.
	Max load	0.5 ACA/250 ACV 0.5 DCA/24 DCV * Do not apply the relay contact load current > 0.5 A, other wise the relay may be damaged permanently without warranty.

Data Output	RS 232 PC serial interface.	
Operating Temperature	0 to 50 °C.	
	* Meter	
Operating Humidity	Less than 80% R.H.	
	* Meter	
Power Supply	90 to 260 ACV, 50/60 Hz.	
Power Consumption	Approx. 4.7 VA/AC 110V. Approx. 5.3 VA/AC 220V.	
Weight	384 g/ 0.84 LB.	* Meter only.
Dimension	DIN size : 96 x 48 mm.	
	Depth : 110 mm.	
Accessories Included	Instruction manual..... 1 PC	
	Case holder with screw..... 2 PCs	
	Oxygen probe(OXPB-11)..... 1 PC	
	Spare Probe head with Diaphragm set (OXHD-04)..... 2 PCs	
	Probe-filling Electrolyte(OXEL-03)..... 1 PC	
Optional Accessories	* Data Acquisition software, SW-U801-WIN.	
	* RS232 cable, UPCB-02.	
	* USB cable, USB-01.	

2-2 Electrical Specifications (23 ±5 °C)

A. Dissolved oxygen

Oxygen Probe	Optional, The polarographic type oxygen probe with	
Measurement & Range	Dissolved Oxygen	0 to 50.0 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 % O2 .
	Temperature	0.1 °C.
Accuracy (23±5 °C)	Dissolved Oxygen	±0.4 mg/L.
	Oxygen in Air	±0.7% O2.
	Temperature	±0.8 °C/1.5 °F.
Probe Compensation & Adj.	Temperature	0 to 50 °C, Automatic
	Salt	0 to 39 % Salt
	Height (M. T.)	0 to 3900 meter
Probe Weight	209 g/0.46 LB	
Probe Size	190 mm x 28 mm Dia. (7.5" x 1.1" Dia.)	

@ Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.