Dual Channel PH/ORP Analyzer

Daruifuno's dual-channel analyzer can be connected to PH and ORP sensors to measure the PH, ORP and temperature in the water, and at the same time evaluate the disinfection capacity of the water body, calculate the corresponding **residual chlorine value**, and display the four parameters on the screen.

Application:

◇ Swimming pool   ◇ water park   ◇ Ultrafiltration   ◇ Recycled water

Dual Channel PH/ORP Controller

Features & Advantages

- Compatible with all DRFN digital PH and ORP sensors;
- Have a variety of curve models to evaluate the disinfection ability in the water body;
- Abundant output, meeting PH/ORP detection and dosing control at the same time;
- Support a variety of installation methods;
- Time and historical data recording function;
- 3.2-inch large LCD screen;
- User-friendly Chinese and English language interface;
- Password can be set to prevent misoperation;
- 2 SPST multi-function and settable relays;
- Two 0/4~20mA active current loop outputs;
- RS485 interface, Modbus RTU communication protocol;
- IP66 waterproof level, sealed enclosure can isolate pollution and corrosive gas;
- Widely used in environments that need to quickly evaluate the residual chlorine value in water.

Specification & Model

Model		PD1000-A	PD1000-D
Software Version		DRFN Multi-parameter analysis softwareV1.0	
Simultaneous input of 2 electrodes	pH	Glass pH sensor	
	ORP	Redox potential sensors (platinum/gold sensors)	
	TEMP	PT1000 or NTC10K	
Measurement Range	pH	-2～16pH	
	ORP	±2000mV	
	TEMP	-10～150℃ /14~302℉	
Resolution	pH	0.01pH	
	ORP	1mV	
	TEMP	0.1℃/ 0.1℉	
Instrument Performance	Accuracy	0.1% of measure range（or PH：±0.02pH /ORP：±2mV）	
	Stability	0.05% of the measure range every 24 hours, no accumulation	
	Repeatability	Better than 0.1% of the measurement range	
Sensor Self-diagnosis		Screen image with a short buzzer alert	
Relay Control		2 settable SPST relays, max. Load 3A/250VAC	
Analog current Output		2 settable 0/4~20mA current loop outputs, max load 1000Ω	
Communication Method		RS485 interface, protocol: MODBUS RTU; support JSON text data format	
Display Screen		3.2-inch graphic dot matrix LCD display adjustable backlight mode and adjustable display rate	
Configuration Information		Power failure protection with indefinite parameter retention	
Time / Data Logging		Year/month/day/hour/minute/second 14000 historical data can be recorded the recording interval can be set between 1~999 minutes	
Maintenance Records		Last 100 times	
Protection Level		IP66	
Operating Environment		0～60℃，RH<95%(no condensation)	
Storage Environment		-20～70℃，RH<55% (no condensation)	
Material		Enhanced ABS	
Dimension		144*144*120mm	
Installation Method		Wall mounting, pipe clamping, panel (opening size 138*138mm)	
Electrical Interface		The back end reserved 3 M12*1.5 Glenn heads, 3~6.5mm over wire diameter	
Power Supply		100~240VAC	18~36VDC
Power Consumption		About7W	
Weight		About 800g	