

## Digital Chlorophyll Analyzer

Daruifuno's chlorophyll analyzer uses the characteristics of chlorophyll fluorescence to excite chlorophyll a in water with a 470nm light source to produce fluorescence, and measure the fluorescence intensity in the range of 660 to 700nm to calculate the concentration of chlorophyll a in the water.

### Application:

◇ rivers and lakes      ◇ surface water      ◇ aquaculture waters      ◇ urban landscape rivers

### Digital Chlorophyll Controller



### Features & Advantages

- Compatible with all DRFN digital chlorophyll sensors;
- Separately have a list of controller and sensor settings for quick and detailed parameter setting;
- The working status of the sensor can be queried, including reading the serial number;
- 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;
- OTA download technology as a smart configuration option for the instrument.

## Specification & Model

Model	DUC2-CHL-H-A	DUC2-CHL-H-D	DUC2-CHL-S-A	DUC2-CHL-S-D
Software Version	DRFN chlorophyll Analysis software V1.0			
Sensor Input	Compatible with all DRFN's chlorophyll Digital Sensors			
Display Range	0~500ug/L or 0~100RFU			
Resolution	0.01ug/L			
Relay Control	2 settable SPST relays with a maximum load of 3A/250VAC			
Analog Current Output	2 settable 0/4~20mA current outputs with a maximum load of 1000Ω			
Communication Method	Two-wire RS485 interface MODBUS RTU support JSON text data format			
OTA	—	—	Default WIFI	Default WIFI
Display Screen	128*64 black-and-white graphic lattice LCD adjustable backlight mode adjustable display rate			
Configuration Information	Power off protection, parameters are retained indefinitely			
Time/Data Record	Year/month/day/hour/min/second, record 14000 historical data record interval can be set between 1~999 minutes			
Maintenance Records	Last 100 times			
Protection Level	IP66			
Operating Environment	0 ~ 60°C, RH<95% ( no condensation)			
Storage Environment	-20 ~ 70°C, RH<55% ( no condensation, precision instruments)			
Shell Material	Enhanced ABS			
Dimension	144*144*120 mm			
Mounting Method	Wall mounting, pipe clamping, panel installation (hole size 138*138 mm)			
Electrical Interface	The back end reserved 3 M12*1.5 Gram head, line diameter 3~6.5 mm			
Power Supply	100 ~ 240VAC	18~36VDC	100 ~ 240VAC	18~36VDC
Power Consumption	About 7W			
Weight	About 800g			