

## Analog Free chlorine Analyzer

### Application areas:

Water Treatment Monitoring: Domestic Water Swimming Pool Environmental Wastewater Discharge Monitoring

Industrial process monitoring: Circulating water, cooling water, aquaculture, papermaking, food, medicine, etc.

### Analog Free chlorine Controller



### Features & Advantages

- Compatible with all DRFN sterilization film method amperometric current sensors.
- Supports variety of installation methods and can be applied to more different installation environments. The enclosure protection level is IP66.
- It has clock and historical data recording functions to meet higher data management requirements.
- Rich output, while satisfying monitoring, control and data remote transmission.
- The standard configuration is 2 SPST relays that can be set. The setting objects include: alarms for the high and low values of the measurement parameters, and can also be set to control the cleaning cycle of the sensor, and can also be set to pairs in harsh environments. The warning of the working environment temperature of the instrument itself, as an auxiliary means of hazard protection, the maximum load of the relay is 3A/250VAC.
- The standard configuration is 2 channels of configurable 0/4~20mA active current loop output, each current output allows the user to specify what measurement value it represents. At the same time, each output can define the range of output values corresponding to the maximum and minimum current values by itself, whether it is forward or reverse, it is possible. In long-distance output, current calibration can be used to ensure the output accuracy. The data accuracy of the current is 0.00025 (16 bits), and the maximum load is 1000 ohms.
- The communication standard is equipped with a two-wire RS485 interface, communication protocol: MODBUS RTU. Support JSON (JavaScript Object Notation) text data format
- All user-entered configurations are retained indefinitely, and data will not be lost even without power. The output and control configuration of the instrument is additionally recorded in a configuration list for easy user documentation and verification.
- Configure OTA download technology (Over-the-Air Technology), as an intelligent configuration option of the instrument, OTA uses WIFI; GSM; CDMA and other wireless technology connections to remotely upgrade software for customers, diagnose faults, and assist in instrument parameter configuration This work not only reduces the workload of instrument on-site service, but also minimizes the time for users to wait for service.

- The display uses a 128\*64 black and white graphic dot matrix screen, and the display backlight provides constant light and energy-saving mode options. The languages that the system can display include at least Chinese and English. Users can choose whether the displayed data responds in a timely manner or responds smoothly by adjusting the display rate according to their observation habits.
- The menu password can be set, which is convenient for hierarchical management;
- Provide AC and DC power supply modes, both of which are wide-voltage power supply;

Model		ADS2-CL3A	ADS2-CL3D	ADS2-CL4A	ADS2-CL4D
Software Version		DRFN Free Chlorine Analysis software V1.0			
Sensor Input		Compatible with all DRFN's Free Chlorine Analog Sensors			
Measurement sensor		Coated Ampere Electrode			
Display range		0.00-200.00mg/L			
Resolution		0.001 mg/L			
Instrument performance	Accuracy	Better than 0.15% of measuring range			
	Stability	0.05% of measurement range every 24 hours, no accumulation			
	Repeatability	Better than 0.1% of the measuring range.			
Sensor self-diagnosis		With sensor diagnostic capability, screen image buzzer prompt			
Relay control		Two settable SPST relays, the maximum load of the relay is 3A/250VAC.			
Analog current output		Two settable 0/4~20mA current outputs, max load 1000Ω			
Communication method		Two-wire RS485 interface, communication protocol: MODBUS RTU; support JSON text data format			
OTA		—	—	Default WIFI	Default WIFI
Display screen		128*64 black and white graphic dot matrix LCD display, adjustable backlight mode, adjustable display rate.			
Configuration information		Power-off protection, parameter retention indefinitely			
Time History/Data Record		Year/month/day/hour/minute/second, 14,000 historical data can be recorded, and the recording interval can be set between 1 and 999 minutes.			
Maintenance records		Last 100 times			
Protection class		IP66			
Operating environment		0 ~ 60°C, RH < 95% (no condensation)			
Storage environment		-20 ~ 70°C, RH < 55% (no condensation, precision instruments)			
Shell Material		Shell material: Reinforced ABS; instrument dimensions 144*144*120mm			
Mounting Method		Wall-mounted installation, pipe clamp installation, panel installation (opening size 138*138mm)			
Electrical interface		The back end reserved 3M12*1.5 Gram head, line diameter 3~6.5mm			
Power supply		AC100 ~ 240VAC	DC 18~36VDC	AC 100 ~ 240VAC	DC18~36VDC
Power consumption		About 10W			
Instrument weight		About 800g			