# Online IONS (ion type) Analyzer

Daruifuno IONS ion controller uses the **ion selective electrode method** and can be connected to a variety of ion composite sensors to realize the detection of ions in the water. The controller has the function of detecting and compensating the temperature of the water sample.

## Application:

◇ Power plant　　　◇ Pure water plant　　◇ Waterworks　　　◇ Domestic sewage treatment plant

◇ Beverage factory　◇ Industrial water　　◇ Aquatic industry　◇ Environmental protection department

◇ Textile industry　◇ Wine industry　　　◇ Hospital　　　　◇ Pharmaceutical Industry

## Online IONS(ion type) Controller



APIS1-F2　　　　　　　　　　　APIS2-F3

## Features＆ Advantages

- 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;

- No need to add any reagents during the detection process, no secondary pollution;

- Shortcut button of APIS1 helps you perform daily maintenance quickly;

- IP66 waterproof level, sealed enclosure can isolate pollution and corrosive gas;

- Two dimensions, can meet a variety of installation methods, and provide the necessary installation accessories at the same time.

| Model | APIS1-F2A | APIS1-F2D | APIS2-F3A | APIS2-F3D |
|---|---|---|---|---|
| Software version | DRFN ion electrode Analysis software V1.0 | | | |
| Measuring object — Ion concentration | Fluorine (chlorine, copper, bromine......) | | | |
| Measuring object — MV | ±2000mV | | | |
| Measuring object — TEMP | -10～150℃ /14~302℉ | | | |
| Resolution — Ion concentration | Related to ion electrodes | | | |
| Resolution — MV | 1mV | | | |
| Resolution — TEMP | 0.1℃/0.1℉ | | | |
| Compensation Channel | Scalable | | | |
| Relay control | 2 settable SPST relays with a max. load of 3A/250VAC | | | |
| Accuracy | 3% of the measuring range | | | |
| Stability | 1% of the measuring range every 24 hours, no accumulation | | | |
| Repeatability | 1% better than the measuring range | | | |
| Analog current output | Two settable 0/4~20mA current loop output, max. load 1000Ω | | | |
| Communication method | Two-wire RS485 interface;MODBUS RTU;support JSON text data format | | | |
| Display screen | 128*64 LCD, adjustable backlight mode, adjustable display rate | | | |
| Language | Chinese and English | | | |
| Configuration information | Power off protection, parameters are retained indefinitely | | | |
| Time history/data record | —— | | Year/month/day/hour/min/second record 14000 historical data set interval between 1~999mins | |
| Maintenance records | —— | | Last 100 times | |
| Operating environment | 0～60℃，RH<95%( no condensation) | | | |
| Storage environment | -20～70℃，RH<55% ( no condensation) | | | |
| Shell material | Enhanced ABS | | | |
| Protection Grade | IP66 | | | |
| Dimension | 100*100*120 mm | | 144*144*120mm | |
| Mounting method | panel installation | | Wall mount, pipe clamping, panel | |
| Hole Size | 92*92mm | | 138*138mm | |
| Electrical interface | The back end reserved 3 M12*1.5 Gram head, line diameter 3~6.5 mm | | | |
| Power supply | 100～240V AC | 18~36V DC | 100～240V AC | 18~36V DC |
| Power consumption | About 3W | | About 7W | |
| Weight | About 500g | | About 800g | |