W8088F Fluoride Ion Monitor

The industrial online ion monitor is a microprocessor-based water quality monitoring and control instrument. Equipped with various types of ion electrodes, it is widely used in power plants, petrochemicals, metallurgy and electronics, mining, papermaking, bioprocessing, pharmaceuticals, food and beverage, and environmental water treatment. It continuously monitors and controls the ion concentration in aqueous solutions.

Instrument Features:

- Large LCD display
- Intelligent menu operation
- Historical data logging
- Multiple automatic calibration functions
- Differential signal measurement mode for stable and reliable performance
- Manual/automatic temperature compensation
- Three sets of relay control switches
- Upper limit, lower limit, and hysteresis control
- Multiple outputs: 4-20mA & RS485
- Simultaneous display of ion concentration, temperature, current, etc.
- Password protection to prevent unauthorized operation

Technical Specifications:

(1) Measurement Range (based on electrode range):
Concentration: 0.02–2000 mg/L;
(Solution pH: 5–7 pH)
Temperature: -10–150.0°C;
(2) Resolution:
Concentration: 0.01/0.1/1 mg/L;
Temperature: 0.1°C;
(3) Basic Error:
Concentration: ±5-10% (based on electrode range);
Temperature: ±0.3°C;
(4) Dual Current Output:
0/4–20mA (load resistance <750Ω);
20–4mA (load resistance <750Ω);
(5) Communication Output: RS485 MODBUS RTU;
(6) Three Sets of Relay Control Contacts:
5A 250VAC, 5A 30VDC;
(7) Power Supply (Optional):
85–265VAC ±10%, 50±1Hz, Power ≤3W;
9–36VDC, Power: ≤3W;
(8) Dimensions: 144×144×118mm;
(9) Mounting Options: Panel-mounted, wall-mounted, conduit-mounted;
Panel cutout size: 137×137mm;
(10) Protection Rating: IP65;
(11) Instrument Weight: 0.8kg;
(12) Instrument operating environment:
Ambient temperature: -10 to 60°C;
Relative humidity: ≤90%;
No strong magnetic field interference except for the Earth's magnetic field.