



T4010F Fluoride Ion Monitor

Industrial Online Ion Monitor is a microprocessor-based water quality online 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 values in aqueous solutions.

Instrument Features:

- Color LCD display
- Intelligent menu operation
- Multiple automatic calibration functions
- Differential signal measurement mode for stable and reliable performance
- Manual/automatic temperature compensation
- Dual 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 capacity):

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: $\pm 5\%$ –10% (based on electrode range);

Temperature: $\pm 0.3^\circ\text{C}$;

(4) Dual Current Output:

0/4–20mA (load resistance $< 750\Omega$);

20–4mA (load resistance $< 750\Omega$);

(5) Communication Output: RS485 MODBUS RTU;

(6) Dual Relay Control Contacts:

3A 250VAC, 3A 30VDC;

(7) Power Supply (Optional):

85–265 VAC $\pm 10\%$, 50 ± 1 Hz, Power ≤ 3 W;

9–36 VDC, Power: ≤ 3 W;

(8) Dimensions: 98 × 98 × 130 mm;

(9) Mounting: Panel-mounted, Wall-mounted;

Panel Cutout Dimensions: 92.5×92.5mm;

(10) Protection Rating: IP65;

(11) Instrument Weight: 0.6kg;

(12) Instrument Operating Environment:

Ambient Temperature: -10~60°C;

Relative Humidity: $\leq 90\%$;

No strong magnetic field interference except Earth's magnetic field.