T6010CA
Hardness (Calcium Ion) Monitor

The industrial online ion monitor is a microprocessor-based water quality online monitoring and control instrument. This device is equipped with various types of ion electrodes and is widely used in power plants, petrochemical industries, metallurgy, electronics, mining, papermaking, bio-fermentation engineering, pharmaceuticals, food and beverage production, and environmental water treatment for continuous monitoring and control of ion concentration levels in aqueous solutions.

Instrument Features:

- Large LCD screen with color liquid crystal display
- Intelligent menu operation
- Data recording and curve display
- Multiple automatic calibration functions
- Differential signal measurement mode, stable and reliable
- Manual and automatic temperature compensation
- Three groups of relay control switches
- High limit, low limit, and hysteresis quantity control
- 4-20mA and RS485 multiple output methods
- Display of ion concentration, temperature, current, etc. on the same interface
- Password setting for protection against unauthorized operation by non-professionals

Specifications:

(1) Measuring Range (Depending on Electrode Range):

Concentration: 0.02–40,000 mg/L

(Solution pH: 2.5–11 pH)

Temperature: 0–50.0°C

(2) Resolution:

Concentration: 0.01 / 0.1 / 1 mg/L

Temperature: 0.1°C

(3) Basic Error:

Concentration: ±5%

Temperature: ±0.3°C

(4) Dual Current Output:

0/4–20 mA (Load resistance < 500Ω)

20–4 mA (Load resistance < 500Ω)

(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 × 118 mm

(9) Mounting Methods:

Panel-mounted / Wall-mounted / Pipeline-mounted

Panel cutout size: 137 × 137 mm

(10) Protection Rating:

IP65

(11) Instrument Weight:

0.8 kg

(12) Operating Environment:

Ambient Temperature: -10–60°C

Relative Humidity: ≤90%

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