T4010CA
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:

- Color LCD display
- Smart menu operation
- Multiple automatic calibration functions
- Differential signal measurement mode, stable and reliable
- Manual & automatic temperature compensation
- Two sets of relay control switches
- High/low limit & hysteresis control
- Multiple output options: 4-20mA & RS485
- Simultaneous display of ion concentration, temperature, current, etc.
- Password protection to prevent unauthorized operation

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% (depending on ion concentration)

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) Two Sets of Relay Control Contacts:

3A 250VAC, 3A 30VDC

(7) Power Supply (Optional):

85–265VAC ±10%, 50±1Hz, Power ≤3W

9–36VDC, Power ≤3W

(8) Dimensions:

98 × 98 × 130 mm

(9) Mounting Method:

Panel-mounted or wall-mounted

Panel cutout size: 92.5 × 92.5 mm

(10) Protection Rating:

IP65

(11) Instrument Weight:

0.6 kg

(12) Operating Environment:

Ambient Temperature: -10–60°C

Relative Humidity: ≤90%

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