



T4016 Nitrogen Oxide Monitor

The I Online Nitrogen Monitoring Instrument is a microprocessor-based water quality online monitoring and control device. Equipped with various types of ion electrodes, it is widely used in power plants, petrochemical industries, metallurgical electronics, mining, papermaking, bioprocessing, pharmaceuticals, food and beverage, and environmental water treatment. It continuously monitors and controls the ion concentration levels in aqueous solutions.

Instrument Features:

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

Specifications:

(1) Measurement Range (Based on Electrode Range):

Concentration: 0.4 to 62,000 mg/L
(Solution pH: 2.5-11 pH);

Temperature: -10 to 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) Two Sets of Relay Control Contacts:

3A 250VAC, 3A 30VDC;

(7) Power Supply (Optional):

85-265VAC $\pm 10\%$, 50 ± 1 Hz, Power $\leq 3\text{W}$;

9-36VDC, Power: $\leq 3\text{W}$;

(8) Dimensions: 98 \times 98 \times 130mm;

(9) Mounting: Panel-mounted, wall-mounted;
Panel cutout size: 92.5 \times 92.5mm;

(10) Protection rating: IP65;

(11) Instrument weight: 0.6kg;

(12) Instrument Operating Environment:

Ambient Temperature: -10 to 60°C;

Relative Humidity: $\leq 90\%$;

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