W8087 Ammonia Nitrogen Monitor

The industrial online ammonia nitrogen monitor is an online water quality monitoring and control instrument with a microprocessor. This instrument is equipped with various types of ion electrodes and is widely used in power plants, petrochemicals, metallurgy electronics, mining, papermaking, biological fermentation engineering, medicine, food and beverage, environmental protection water treatment, etc. It continuously monitors and controls the ion concentration values of water solutions.

Instrument features:

- **Large LCD screen liquid crystal display**
- **Intelligent menu operation**
- **Historical data recording**
- **Various automatic calibration functions**
- **Differential signal measurement mode, stable and reliable**
- **Manual and automatic temperature compensation**
- **Three groups of relays control the switch**
- **High limit, low limit, hysteresis value control**
- **4-20mA & RS485 multiple output methods**
- **Displays ion concentration, temperature, current, etc. on the same interface**
- **Password setting for protection against unauthorized personnel's operation**

Technical specification

（1）Measurement range (depending on electrode range):

Ion concentration: 0.02 - 18000 mg/L

(Solution pH value: 4 - 10 pH);

Temperature: -10 - 150.0℃;

(2) Resolution:

Concentration: 0.01/0.1/1 mg/L;

Temperature: 0.1℃;

(3) Basic error:

Concentration: ±5 - 10% (depending on electrode range);

Temperature: ±0.3℃;

(4) 2-channel current output:

0/4 - 20 mA (load resistance < 750Ω);

20 - 4 mA (load resistance < 750Ω);

(5) Communication output: RS485 MODBUS RTU;

(6) Three groups of relay control contacts:

5A 250VAC, 5A 30VDC;

(7) Power supply (optional):

85 - 265 VAC ± 10%, 50 ± 1 Hz, power ≤ 3W;

9 - 36 VDC, power: ≤ 3W;

(8) External dimensions: 144 × 144 × 118 mm;

(9) Installation method: panel-mounted, wall-mounted, pipe-mounted;

Panel opening dimensions: 137 × 137 mm;

(10) Protection level: IP65;

(11) Instrument weight: 0.8 kg;

(12) Instrument working environment:

Environmental temperature: -10 - 60℃;

Relative humidity: no more than 90%;

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