

T9017 Model

Nitrite Nitrogen Water Quality Online Automatic Monitoring Instrument

Product Overview:

The nitrite nitrogen online monitor uses spectrophotometry for detection. This instrument is mainly used for monitoring surface water, groundwater, industrial wastewater, etc.

This analyzer can operate automatically and continuously without human intervention for a long period based on on-site settings.

It is widely applicable to various scenarios such as industrial pollution source wastewater discharge and industrial process wastewater. According to the complexity of the on-site testing conditions, corresponding pre-treatment systems can be selected to ensure the reliability of the testing process and the accuracy of the test results, fully meeting the on-site requirements of different occasions.

Product Principle:

In a phosphoric acid medium at $\text{pH } 1.8 \pm 0.3$, nitrite reacts with sulfanilamide to form a diazonium salt. This salt then couples with N-(1-Naphthyl) ethylenediamine dihydrochloride to produce a red dye, which exhibits maximum absorption at a wavelength of 540 nm.



Technical specification:

	Specification Name	Technical specifications and parameters
1	test method	N-(1-Naphthyl) ethylenediamine Spectrophotometry
2	Measurement range	0~20mg/L (segmented measurement, expandable)
3	Detection limit	≤ 0.003
4	Resolution	0.001
5	Accuracy	$\pm 10\%$
6	Repeatability	$\leq 5\%$
7	Zero-point drift	$\pm 5\%$
8	Range drift	$\pm 5\%$
9	Measurement period	Less than 30 minutes, the dissipation time can be set
10	Sampling period	Time interval (adjustable), on-the-hour, or trigger measurement mode, configurable
11	Calibration period	Automatic calibration (adjustable from 1 to 99 days), manual calibration can be set according to actual water samples
12	Maintenance period	Maintenance interval is greater than 1 month, each time about 5 minutes
13	Human-machine operation	Touchscreen display and command input
14	Self-check protection	The instrument performs self-diagnosis of its operating status. Data will not be lost in case of abnormalities or power outages. After abnormal reset or power resumption, the instrument automatically removes residual reactants and resumes operation automatically.
15	Data storage	5-year data storage
16	One-click maintenance	Automatically empty old reagents and clean the pipelines; replace new reagents, automatically calibrate, and automatically verify; optional cleaning solution can automatically clean the digestion cell and metering tube
17	Quick debugging	Achieve unattended, uninterrupted operation, automatically complete debugging reports, greatly facilitating users and reducing labor costs.
18	Input interface	Switch quantity
19	Output interface	1 RS232 output, 1 RS485 output, 1 4-20mA output
20	Working environment	For indoor work, the recommended temperature range is 5 to 28 degrees Celsius, and the humidity should be no more than 90% (without condensation).

21	Power supply	$AC220 \pm 10\%V$
22	Frequency	$50 \pm 0.5Hz$
23	Power	$\leq 150W$, without sampling pump
24	Inches	Height: 520 mm, Width: 370 mm, Depth: 265 mm