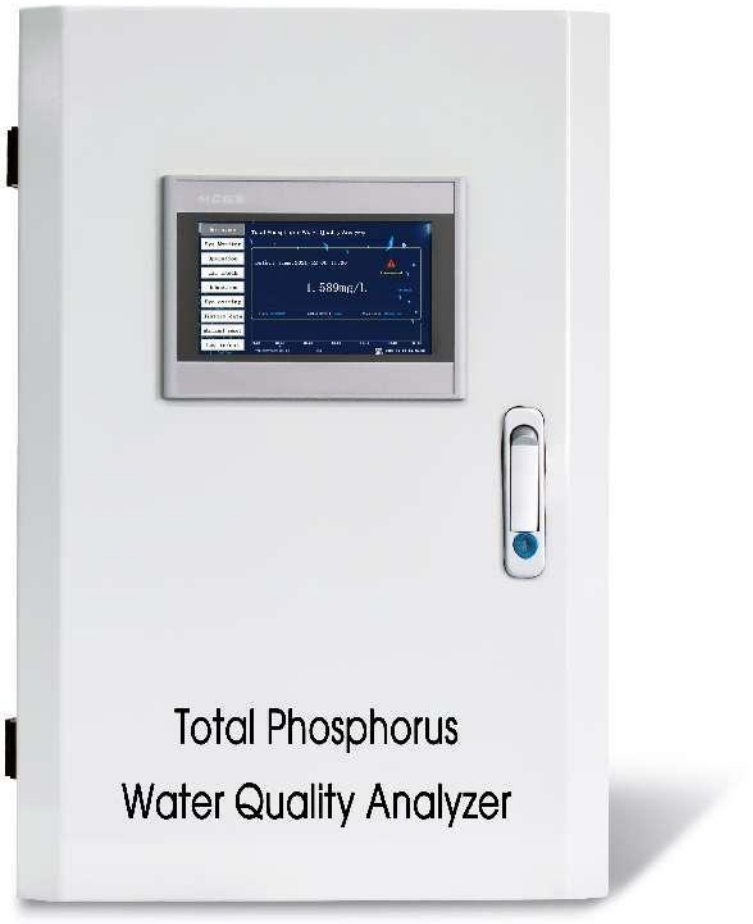
T9002

Total Phosphorus Online Automatic Monitor



1. Product Overview:

Most marine organisms are very sensitive to organophosphorus pesticides. Some insects that are resistant to pesticide concentration can quickly kill marine organisms.There is an important nerve conducting substance in human body, called acetylcholinesterase. Organophosphorus can inhibit cholinesterase and make it unable to decompose acetyl cholinesterasee, resulting in a large accumulation of acetylcholinesterase in the nerve center, which can lead to poisoning and even death. Long-term low-dose organophosphorus pesticides can not only cause chronic poisoning, but also cause carcinogenic and teratogenic hazards.

The analyzer can work automatically and continuously for a long time without attendance according to the site settings. It is widely used in industrial pollution source discharge wastewater, industrial process wastewater, industrial sewage treatment plant wastewater, municipal sewage treatment plant wastewater and other occasions. According to the complexity of site test conditions, the corresponding pretreatment system can be selected to ensure the test process is reliable,test results are accurate, and fully meet the needs of different occasions.

2. Product Principle:

The mixture of water sample, catalyst solution and strong oxidant digestion solution is heated to 120 C. Polyphosphates and other phosphorus-containing compounds in water sample are digested and oxidized by strong oxidant under acidic conditions of high temperature and high pressure to form phosphate radicals. In the presence of catalyst, phosphate ions form a colored complex in strong acid solution containing molybdate. The color change is detected by analyzer. The change is converted into total phosphorus value, and the amount of coloured complex is equivalent to total phosphorus.

This product is a single factor parameter testing and analysis instrument. It is suitable for wastewater containing phosphorus in the range of 0-50mg/L.

3. Technical Parameters:

No.	Name	Technical Parameters
1	Range	The phosphor-molybdenum blue spectrophotometric method is suitable for the determination of total phosphorus in wastewater in the range of 0-500 mg/L.
2	Test Methods	Phosphorus molybdenum blue spectrophotometric method
3	Measuring range	0~500mg/L
4	Detection Lower limit	0.1
5	Resolution	0.01
6	Accuracy	≤±10% or ≤±0.2mg/L
7	Repeatability	≤±5% or ≤±0.2mg/L
8	Zero Drift	±0.5mg/L
9	Span Drift	±10%
10	Measurement cycle	The minimum test period is 20 minutes. According to the actual water sample, the digestion time can be set from 5 to120 minutes.
11	Sampling period	Time interval (adjustable), integral hour or trigger measurement mode can be set.

12	Calibration cycle	Automatic calibration (1-99 days adjustable), according to actual water samples, manual calibration can be set.
13	Maintenance cycle	Maintenance interval is more than one month, about 30 minutes each time.
14	Human-machine operation	Touch screen display and instruction input.
15	Self checking protection	Working status is self-diagnostic, abnormal or power failure will not lose data. Automatically eliminates residual reactants and resumes work after abnormal reset or power failure.
16	Data storage	No less than half a year data storage
17	Input interface	Switch quantity
18	Output interface	Two RS232 digital output, One 4-20mA analog output
19	Working Conditions	Working indoors; temperature 5-28℃; relative humidity≤90% (no condensation,no dew)
20	Power Supply Consumption	AC230±10%V, 50~60Hz, 5A
21	Dimensions	355×400×600(mm)