Online Total Nitrogen Analyzer

Model : TNG-3020

This total nitrogen analyzer is simple to measure, and the sample to be tested does not need any pretreatment. The water sample riser can be directly inserted into the system water sample to measure the total nitrogen concentration. The maximum measuring range of the equipment is 0~500mg/L TN. This method is mainly used for online automatic monitoring of total nitrogen concentration such as waste (sewage) water discharge point source and surface water.

Main Features

·Unique design makes this product have lower failure rate, lower maintenance, lower reagent consumption and higher cost performance than similar products; · Select valve assembly: select reagent sampling timing; · Metering component: Accurate metering of reagents through visible photoelectric system, which overcomes the quantitative error caused by wear of peristaltic pump tube; at the same time, it realizes accurate quantification of trace reagents, each dose is only 1.5 ml, which greatly reduces the reagent usage; · Injection assembly: peristaltic pump suction under negative pressure, there is always an air buffer between the reagent and the pump tube to avoid corrosion of the pump tube; · Sealed digestion component: high temperature and high pressure digestion system, speeding up the reaction process, overcoming the corrosion of corrosive gas volatilization of the open system; · Reagent tube: It adopts imported new PTFE transparent hose with a diameter of more than 1.5mm, which reduces the probability of water sample clogging.

Technical parameters:

Principle: Resorcinol spectrophotometry
Measuring range: 0.0 ~10mg/L,0.5~100 mg/L,5~500 mg/L;
Accuracy: ≤0.5mg/L when±0.05mg/L; ≤±10% when >0.5mg/L;
Repeatability: ≤±5%;
Stability:≤±10% in 24hours;
Measurement period:The minimum measurement period is 30 minutes, according to the actual water sample, The digestion time can be modified from 5 to 120 minutes.
Sampling period:Time interval(10~9999min adjustable by yourself) and Integral time measurement mode;
Calibration period: adjustable in 1~99days;
Maintenance period: Usually one time per month and 30 minutes each time
Output: 4~20mA(2 ways) RS232,RS485;
Ambient requirement: it should be indoor and temperature can be adjustable. The recommend temperature is +5~28℃;humidity≤90%（no dew）;
Power:AC220±10% V,50±10% Hz,5 A;
Dimension size: Height 1450×Width510×Length 450 mm;
Data saved: the data can be saved when abnormal alarms and power off.
Display: touch screen and Command Input
Other:When Reset after abnormal alarm and power on after off, the instrument automatically discharges residual reactants in the instrument a automatically resumes working status.