Online Water Quality Analyzer for Total Nitrogen (TN)

Technical Principle

At 120~124 ° C, potassium persulfate decomposes to generate atomic oxygen, which converts nitrogen in nitrogen-containing compounds of the water sample into nitrate. A xenon lamp is used. By ultraviolet spectrophotometry, absorbance A_{220} and A_{275} are measured at wavelengths of 220 nm and 275 nm respectively. The instrument converts the readings into the TN value of the sample.

Technical Specifications

Model	HNTN-2000
Measurement Method	Alkaline Potassium Persulfate UV Spectrophotometry
Measuring Range	(0~4/10/50) mg/L, customizable
Accuracy	±5%
Repeatability	≤3%
Zero Drift	±1%
Span Drift	±3%
Measurement Time	≤50min
Communication Interface	1 channel of (4~20)mA output, 2 channels RS485, 1 channel RS232, 1 channel Ethernet port, 1 channel USB interface
Digital Output	1 channel passive output, 1 channel 24V DC active output, 220V AC output optional
Touch Screen	8-inch color touch screen
Equipment Dimensions	42.5 cm × 42 cm × 126 cm
Net Weight	Approximately 60 kg


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HNTN-2000
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