Online Water Quality Analyzer for Ammonia Nitrogen (NH_3N)

Technical Principle

In an alkaline medium and in the presence of sodium nitroprusside, ammonia and ammonium ions in the sample react with salicylate and hypochlorite ions to form a blue compound. The analyzer detects the color change of this solution and collects absorbance values at 697 nm, which are converted by the instrument into the NH_3-N value of the sample.

Technical Specifications

Model	$HNNH_3N$-2000
Measurement Method	Salicylic Acid Spectrophotometry
Measuring Range	(0~1/10/150) mg/L, customizable
Accuracy	±2%
Repeatability	≤1%
Zero Drift	≤0.01mg/L
Span Drift	≤0.5%
Measurement Time	≤30min
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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HNNH₃N-2000
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