

High-Reliability Online Ammonia Monitoring for Wastewater Treatment

The Photonic Measurements Ammonia Analyser uses an ammonia-sensitive electrode method to quantify ammonia concentration in water and wastewater.

The system integrates both filtration and measurement into a single compact unit, eliminating the need for external sample preparation equipment. This design ensures stable, continuous operation even in challenging mixed-liquor conditions.



Applications



Wastewater

- Biological treatment tanks
- Activated sludge systems
- Nitrification/denitrification control
- General wastewater process monitoring

The analyzer is engineered specifically for high-solids, high-variability wastewater environments, making it suitable for municipal and industrial WWTPs.

Benefits

Realtime Measurement

- Designed for uninterrupted continuous monitoring in biological treatment processes.

Stable Operation

- No external filtration system required
- Integrated filtration and measurement module ensures stable operation even in high-solids wastewater.

Low Maintenance

- Three-month service interval and minimal calibration requirements.

Excellent Chemical Sensitivity

- Measurement is unaffected by interference from other ions, ensuring dependable data quality.



Measurement method	Ammonia-sensitive electrode method
Measurement range	From 0 to 5mg/L, 50mg/L, 500mg/L, 1000mg/L
Accuracy	$\pm 0.05\text{mg/L}$ or $\pm 2\%$, whichever is greater
Measurement	Continuous operation
Calibration	Two point
Voltage	220 – 240v
Maintenance interval	Three months
Dimensions	550mm x 420mm x 80mm
Analysis time	5 minutes
Repeatability	$\pm 2\%$
Reagent consumption	Reagent 1: 0.5 ml / analysis Reagent 2: 0.5 ml / analysis Reagent 3: 45ml/ calibration

