

Nitrate Nitrogen Water Quality Analyzer

Model: KWC-275

Product Datasheet



1. Product Overview

Based on the national standard UV spectral method for nitrate detection, this analyzer uses a multi-wavelength integrated UVC-LED light source with a large-area wide-bandgap UV detector, featuring a dual organic interference correction algorithm for fast and accurate nitrate measurement.

Key Features

- Sensitive and stable UV signal detection
- Multi-wavelength UVC-LED source, instant-on (no warm-up)
- Lightweight and portable, adaptable to multiple scenarios
- No chemical reagents — environmentally friendly
- Patented algorithm resists dissolved organic interference
- Self-developed core technology for flexible custom solutions

2. Technical Specifications

Parameter	Specification
Measurement	Nitrate Nitrogen (NO ₃ ⁻ -N), COD
NO ₃ ⁻ -N Range	0-15 mg/L
NO ₃ ⁻ -N Accuracy	±5%
COD Range	0-250 mg/L
COD Accuracy	±5%
Resolution	0.01
Weight / Material	~365 g / ABS Plastic
Display	2.4" TFT LCD, 240×320 RGB
Dimensions	194 × 92 × 56 mm (L×W×H)
Protection Grade	IP65
Power Consumption	~600 mW
Power Supply	Built-in Li-ion battery, Type-C charging, auto-off
Operating Conditions	10 to 45 °C, RH ≤ 80% (non-condensing)
Accessories	10 mm quartz cuvette (default)

Note: All technical parameters are tested under laboratory standard solution conditions. Recommended sample water A275 < 0.500, A230 < 0.100.

Specifications may vary by product configuration.

3. Applications

- Drinking Water
- Surface Water
- Domestic Sewage
- Industrial Wastewater

4. Ordering Information

Order Code	Model	Measurement Range
KWC-275	KWC-275	NO ₃ -N 0-15 mg/L, COD 0-250 mg/L

Note: Include a 10mm quartz cuvette. Factory calibration with on-site water sample available upon request.

5. Contact Us

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