AADNS-800

Nitrate (NO3-) Sensor

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The AADNS-800 is a highly accurate and reliable sensor designed for measuring Nitrate (NO3-) levels in water. With a pH range of 4-10 and a precision of ±0.1, it ensures precise and consistent readings. The sensor features a digital RS-485 output with MODBUS protocol for seamless data transmission and integration with compatible controllers like AAD-IC-100-4 and AAD-IMC-100-12. Operating in harsh environments with IP68 protection, and offering optional measurement of Potassium and Sodium, the AADNS-800 is an efficient and versatile solution for water quality monitoring and environmental applications.

Product Features

- **Digital Sensor:** Provides accurate and precise Nitrate measurements.
- **RS-485 Output**: Supports MODBUS protocol for seamless data transmission.
- **Economical and Environmentally Friendly**: Enables real-time online monitoring.
- **Automatic pH and Temperature Compensation**: Ensures accurate readings.
- **High Precision and Stability**: Offers reliable and consistent results.

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Technical Specifications

Basic Specifications

pH Range	4-10
pH Accuracy	±0.1
pH Resolution	0.01
Housing Material	POM (An Engineering Thermoplastic)
Nitrate Range	0~800mg/l NO3-
Nitrate Precision	3%
Protection Level	IP68
Nitrate Resolution	0.1ppm
Temperature Range	0~50℃
Power Supply	DC 6~12V, current<50mA
Output Signal	Digital RS-485 output, MODBUS protocol
Cable Length	5 meters (default), customizable

Operating Parameters

Optional Measurements	Potassium, Sodium
Compatible Controllers	AAD-IC-100-4 and AAD-IMC-100-12

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APPLICATIONS

Aquaculture Farms
Maintain NO3- levels in fish tanks for optimal aquatic conditions.

Drinking Water Quality
Ensure safe drinking water by monitoring NO3- levels in water sources.

Environmental Research
Assess NO3- concentrations in water bodies to study pollution and ecosystem health.
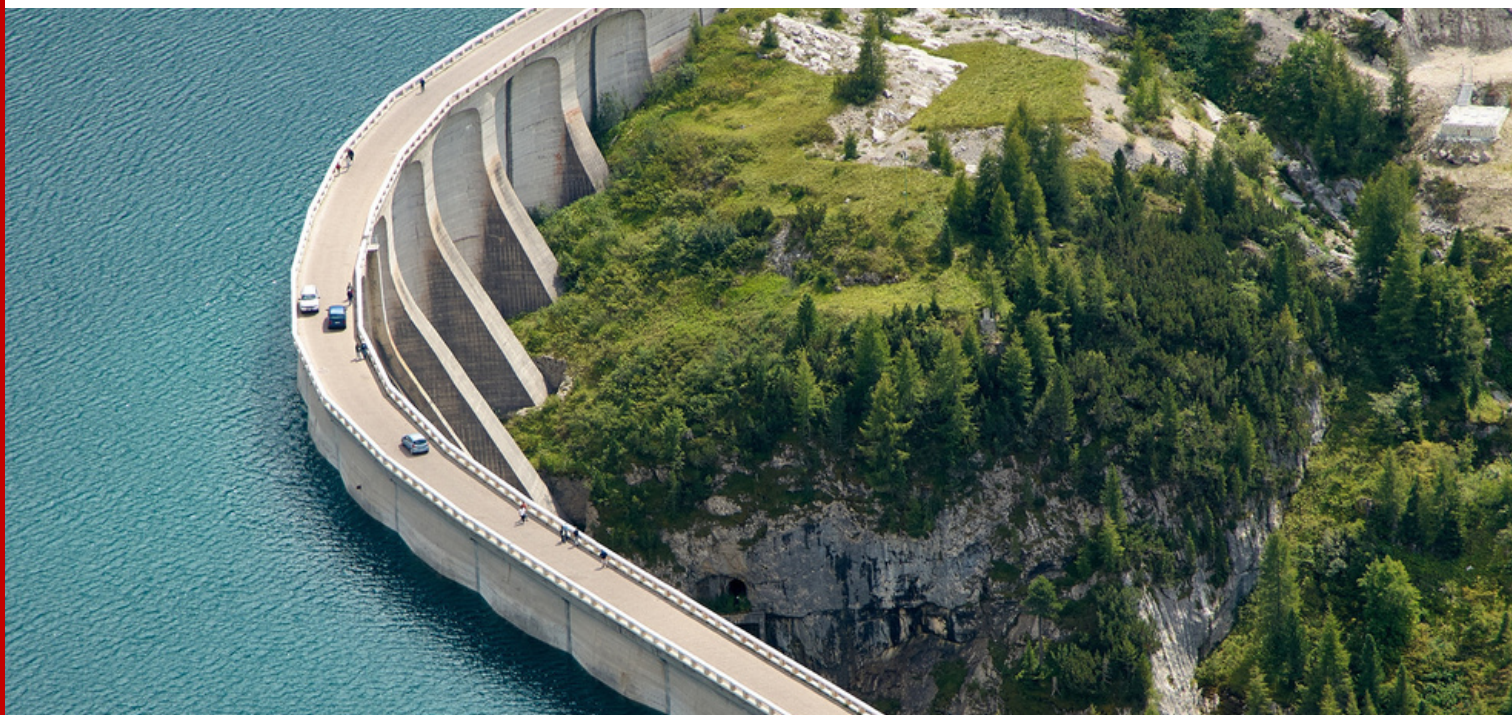
Agriculture and Irrigation
Monitor NO3- levels in irrigation water to optimize nutrient supply to crops.

Scientific Laboratories
Conduct NO3- analysis for research and educational purposes.

Industrial Processes
Control NO3- concentrations in wastewater to meet environmental regulations.

Note -

This data sheet serves as general information about the AADNS-800. For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.

For inquiries and detailed technical information, please contact info@advanceanalytik.com.

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