
# AADOIW-800

**Oil in Water Sensor**

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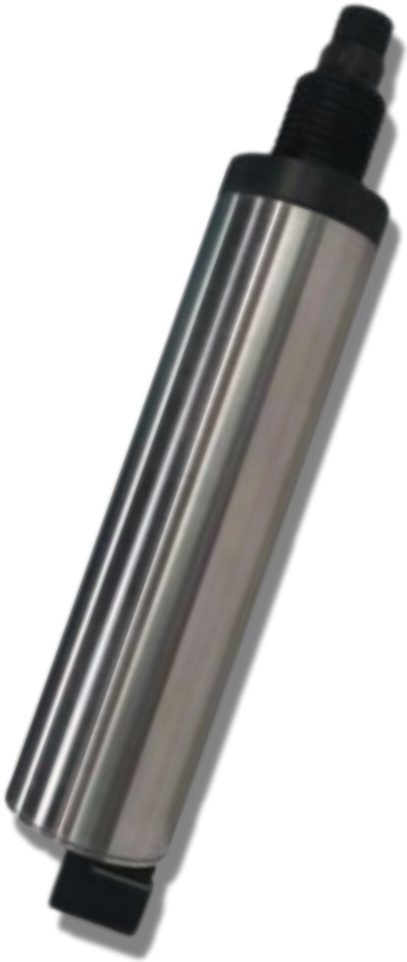
## Oil in Water Sensor

The AADOIW-800 is an advanced oil in water sensor utilizing ultraviolet fluorescence technology. It excels in precision and versatility, with a wide detection range from 0 to 50ppm and an impressive 3% precision. Designed for efficient monitoring of oil levels in water, even in the presence of suspended solids, this sensor integrates seamlessly with compatible controllers like AAD-IC-100-4 and AAD-IMC-100-12. Its rugged construction, IP68 protection, and optional self-cleaning brush ensure dependable performance across various industrial applications.



### *Product Features*

- **Digital Sensor**: Delivers accurate and precise oil detection measurements.
- **RS-485 Output**: Supports data transmission using the MODBUS protocol.
- **Automatic Cleaning Brush**: Eliminates the impact of oil on measurements.
- **Optical and Electronic Filtering Techniques**: Eliminate ambient light effects on readings.
- **Unaffected by Suspended Solids**: Reliable performance even in challenging environments.

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# AADOIW-800

## Technical Specifications

| Basic Specifications | |
|---|---|
| Precision | 3% |
| Product | Oil in water sensor / Self-cleaning oil in water sensor |
| Principle | Ultraviolet fluorescence method |
| Range | 0-50ppm |
| Protection Level | IP68 |
| Sensor Interface | Supports RS-485, MODBUS protocol |
| Assembly | Input type |
| Power Information | DC 5~12V, current <50mA (when not cleaned) |
| Size | Φ45*175.8 mm |
| Probe Cable Length | 5 meters (default), customizable |
| **Basic Specifications** | |
| Resolution | 3% |
| Detection Limit | 0.1ppm |
| Housing Material | SS316 / titanium a |
| Self-Cleaning Brush | No / Available |
| Optical Window | Tailored to the actual oil sample |
| Compatible Controllers | Model AADOIW-800 / AADOIWSC-800 |
| Air Pressure Compensation | Optical fiber |

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# APPLICATIONS

**Industrial Manufacturing**
Monitor oil levels in cooling systems and lubrication circuits for efficient machinery operation.

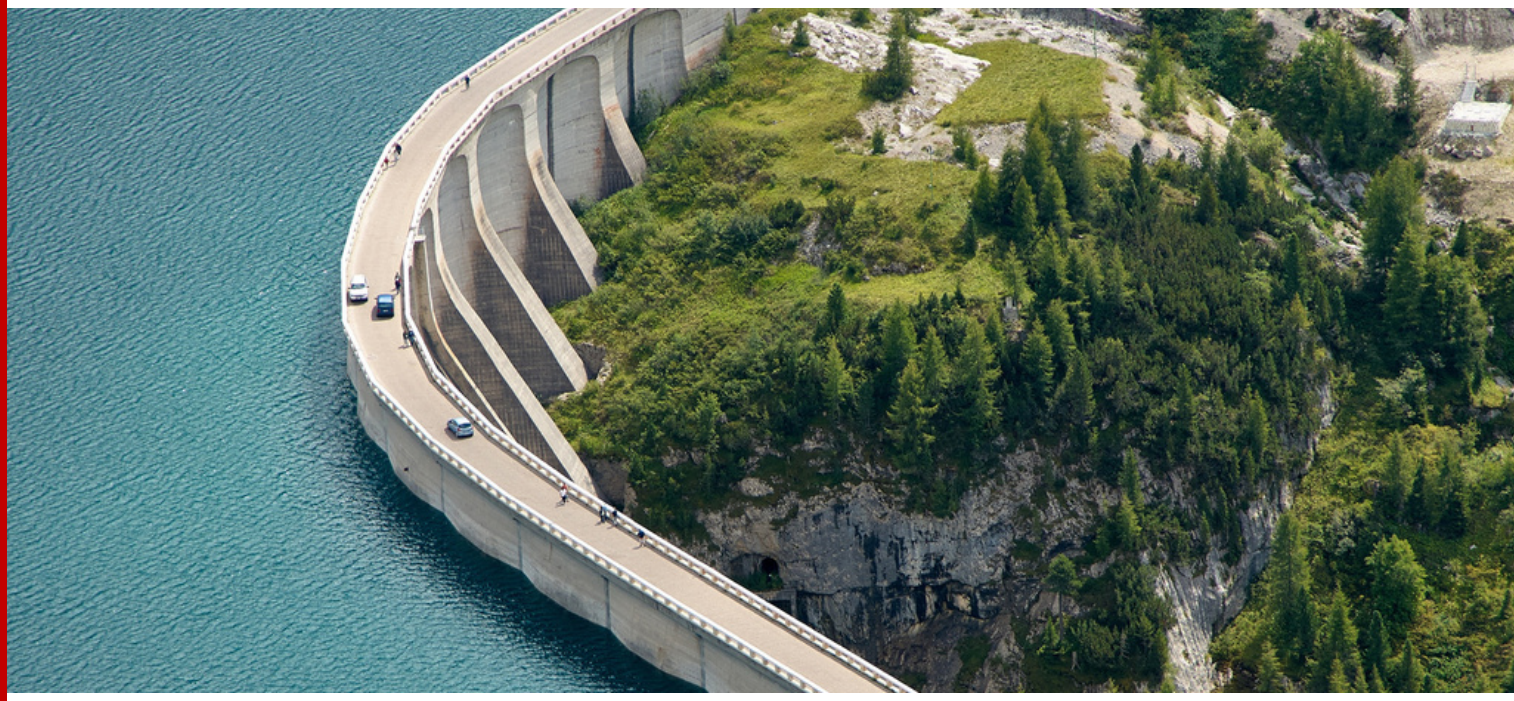
**Wastewater Treatment**
Detect oil contamination in water discharges, ensuring compliance with environmental regulations.

**Oil Refineries**
Maintain water purity by tracking oil presence in cooling and water treatment systems.

**Marine Applications**
Monitor bilge water for oil leakage prevention in marine vessels.

**Power Plants**
Control oil leaks and contamination in water circulating systems for enhanced efficiency.

**Chemical Processing**
Ensure process water purity by monitoring oil content in chemical manufacturing.



## Note -

This data sheet serves as general information about the AADOIW-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.

# ADVANCE ANALYTIK

**Advance Analytik KFT**
**1024, Keleti Karoly utca 48.**
**fszt. Budapest**
**+36 70 328 6862**
**sales@advanceanalytik.com**

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**www.advanceanalytik.com**