# POIL-600 Oil in Water On-line Analyzer

## Measurement Principle

POIL-600 online analyzer for oil in water, adopts UV fluorescence method to monitor the oil content in the water, and quantitatively analyzes the concentration of oil in the water according to the fluorescence intensity emitted by the absorption of UV light by petroleum and its aromatic hydrocarbon compounds and the compounds containing conjugated double bonds.



## Features

- Advanced optical monitoring method with no reagents, no dilution and stable long-term operation.
- Short response time for continuous measurement.
- Adopting imported high-precision LED's light source, high stability, small drift, long life, easy to integrate on site.
- The sensor has an automatic cleaning function, which reduces maintenance unique optical and electronic light filtering technology to eliminate the influence of ambient light.
- Sensors are easy and quick to install in the field, realizing plug and play.
- With time display, data storage and historical data view function.
- Optional data wireless transmission module.

## Applications

- Real-time online monitoring of oil in surface water, groundwater, oceans, water sources, etc.

## Technical Specifications

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| **Measurement range** | 0-5000 ppb |
| **Detection limit** | Determined by the actual oil sample |
| **Linearity** | $R^2 > 0.999$ |
| **Resolution** | 0.01 ppb |
| **Calibration** | Sample calibration, slope calibration |
| **Sensor Material** | Body: SUS316L, titanium alloy; Cable: PUR |
| **Power supply** | AC power supply: 85-500VAC; DC power supply: 9-36VDC |
| **Outputs** | 3-way 4-20mA |
| **Relay** | Three relays, programmable response parameters and response values |
| **Communication Protocols** | MODBUS RS485 |
| **Storage Temp.** | -15 to 50℃ |
| **Operating Temp.** | 0 to 50℃ (No ice) |
| **Dimensions** | Sensor: Diameter 50*Length 176.5mm<br>Transmitter: 145*125*162mm (L*W*H) |
| **Weight** | Sensor: 0.55KG; Transmitter: 1.35KG |
| **Pressure range** | ≤0.3Mpa |
| **Protection class** | Sensor：IP68/NEMA6P；Transmitter：IP66/ NEMA4X |
| **Power consumption** | 0.3W(Measuring)/1.0W(Scrubbing) Max |
| **Cleaning method** | Automatic brush cleaning |
| **Assembly** | NPT 3/4 thread, drop-in installation |
| **Cable length** | Standard 10m cable, cable can be extended up to 50m (when the cable length reaches 50m, the input voltage should be 24V to satisfy) |



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