

Oil in Water Sensor

BI 1380-S-B

Agasthya 2021 Series



Advanced UV Fluorescence Technology for highly accurate oil detection



Prevents fouling, oil film & air bubble interference for consistent accuracy



Real-time online monitoring with fast response & excellent repeatability



No reagents required – reduces operational and maintenance costs



Easy integration with RS485 (Modbus protocol)



Robust design for long-term, low-maintenance operation

OVERVIEW

The BI 1380-S-B Oil in Water Sensor operates based on the Ultraviolet Fluorescence principle, offering highly sensitive and reliable measurement of oil content in water. Compared to conventional methods, this technique provides faster response, excellent repeatability, and enables real-time online monitoring.

The sensor is capable of detecting both dissolved and emulsified oil, making it suitable for a wide range of industrial water monitoring applications. Its robust construction and stable performance ensure long-term operation with minimal maintenance.

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Ultraviolet Fluorescence Technology

KEY FEATURES

- Uses Ultraviolet Fluorescence Technology for high accuracy measurement
- High sensitivity for dissolved and emulsified oil detection
- RS485 output with Modbus protocol for easy system integration
- No reagents required, reducing operational cost
- Strong anti-interference capability
- Low maintenance and no frequent calibration required

TECHNICAL SPECIFICATIONS

Parameter	Details
Measurement Principle	Ultraviolet Fluorescence
Measurement Range	0 – 50 ppm / 0 – 150 ppm
Resolution	0.01 ppm
Temperature Range	0 – 50°C
Maximum Depth	60 m
Protection Rating	IP 68
Output	RS485, Modbus Protocol
Power Supply	DC 6–24V
Power Consumption	~0.2W
Sensor Size	Φ22mm × 175.5 mm
Cable Length	10 m (customizable)
Calibration	1-point / 2-point calibration
Housing Material	Titanium Alloy

APPLICATIONS

- Oil field monitoring
- Industrial wastewater treatment
- Petrochemical industries
- Pipeline monitoring systems
- Surface water quality monitoring
- Cooling water & condensate

OUR LIQUID ANALYZERS PRODUCT RANGE



Multiparameter Water Quality
Monitoring System
BI 1000



Water Sensors



Single & Dual
Channel Controllers
BI 13X0-C, BI 13XX-C

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