

Oil in Water Sensor BI 1380-S-C Agasthya 2021 Series



Built-in automatic self-cleaning system for uninterrupted performance



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



Ideal for harsh and high-fouling environments with minimal manual intervention



Advanced UV Fluorescence Technology for highly accurate oil detection



Detects both dissolved & emulsified oil with high sensitivity



Real-time online monitoring with fast response & excellent repeatability



No reagents required – reduces operational and maintenance costs



Strong anti-interference performance or reliable results in tough conditions



Easy integration with RS485 (Modbus protocol)



Robust design for long-term, low-maintenance operation

OVERVIEW

The BI 1380-S-C Oil in Water Sensor is an advanced version equipped with an automatic self-cleaning mechanism, designed for continuous and long-term monitoring applications. It utilizes Ultraviolet Fluorescence technology to deliver precise and stable measurements of oil concentration in water.

The integrated cleaning brush effectively removes fouling, oil films, and air bubbles, ensuring consistent accuracy and reduced maintenance frequency, even in challenging environments.

Oil in Water Sensor

BI 1380-S-C

Agasthya 2021 Series

Ultraviolet Fluorescence Technology

KEY FEATURES

- Advanced UV Fluorescence measurement technology
- Automatic self-cleaning brush reduces fouling and maintenance
- High sensitivity for dissolved & emulsified oil detection
- RS485 with Modbus protocol for seamless integration
- No chemical reagents required
- Excellent anti-interference performance

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	30 m
Protection Rating	IP 68
Output	RS485, Modbus Protocol
Power Supply	DC 5–12V
Power Consumption	0.2W (idle), 0.6W (cleaning mode)
Sensor Size	Φ45 mm × 190.8 mm
Cable Length	10 m (customizable)
Calibration	1-point / 2-point calibration
Housing Material	316L Stainless Steel

APPLICATIONS

- Wastewater treatment plants
- Oil & gas industry monitoring
- Industrial process water
- Surface water monitoring stations
- Continuous online monitoring systems

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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