PMI800-OIL Portable Oil-in-Water Water Quality Analyzer

Introduction



The PMI800-OIL portable oil-in-water analyzer consists of a PMI-800 host and a POIL-700 oil-in-water sensor. The POIL-700 online oil-in-water analyzer adopts the ultraviolet fluorescence method to monitor the oil content in water bodies. According to the fluorescence intensity emitted by petroleum, its aromatic hydrocarbons and compounds with conjugated double bonds after absorbing ultraviolet light, the oil concentration in water bodies is quantitatively analyzed. Aromatic hydrocarbons in petroleum can produce fluorescence under ultraviolet excitation, and the oil content in water is calculated according to the intensity of the fluorescence.

Main Features

- Ergonomic curve design, suitable for hand holding, with a rubber non-slip wristband to prevent slipping in humid environments;
- Equipped with data storage function, and data can be exported via USB interface;
- Built-in rechargeable battery, which can be directly charged via USB without removing the battery;
- Automatically identifies the type of connected sensor, and the reading interface adapts automatically;
- Allows parameter setting and calibration of the sensor;
- Advanced optical monitoring method, no reagents, no dilution, stable long-term operation;
- Short response time, enabling continuous measurement;
- Adopts LED light source, which is small in size, low in power consumption, and easy for on-site integration;
- The sensor has an automatic cleaning function, which can reduce maintenance volume;
- Adopts unique optical and electronic filtering technology to eliminate the influence of ambient light.

Application

- Real-time online monitoring of oil in environmental water bodies such as surface water, groundwater, drinking water, and pollution source discharge control.

Technical Specifications

Measurement Range	0-50mg/L (NDSA)
Measurement Accuracy	≤±10% or ±0.3mg/L, whichever is larger
Resolution	0.01mg/L
Repeatability	≤±5%
Calibration	Sample calibration, slope calibration
Housing Material	Body: SUS316L; Host: ABS+PC
Storage Temperature	-15-50℃
Operating Temperature	0-45℃ (no freezing)
Weight	Sensor: 1.55KG; Host: 0.5KG
Dimensions	Sensor: Diameter 60mm * Length 213mm; Host: 203*100*43mm (Length*Width*Height)
Protection Rating	Host: IP67; Sensor: IP68
Cable Length	Standard 3-meter cable (extendable)
Display	3.5-inch color display screen with adjustable backlight
Data Storage	More than 100,000 data records