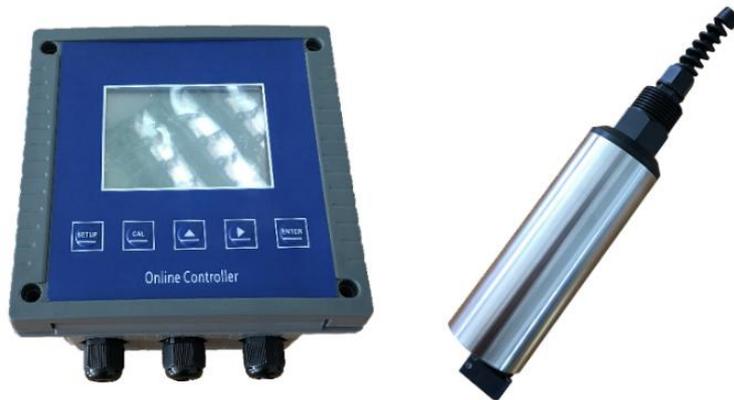




BQ-OIW Online Oil In Water Analyzer



Measuring Principle

The oil content in the water was monitored by ultraviolet fluorescence method, and the oil concentration in the water was quantitatively analyzed according to the fluorescence intensity of the oil and its aromatic hydrocarbon compound and the conjugated double bond compound absorbing ultraviolet light. The aromatic hydrocarbons in the petroleum form fluorescence under the excitation of ultraviolet light, and the value of the oil in the water is calculated according to the intensity of the fluorescence.

Main Features

- 1) Digital sensor, RS-485 output, support MODBUS
- 2) With automatic cleaning brush to eliminate the impact of oil on the measurement
- 3) Unique optical&electronic filtering technique to eliminate the effect of ambient light
- 4) Unaffected by suspended solids in water

Technical Parameters

Parameters	Oil in water,temperature
principle	Ultraviolet fluorescence method
Measuring range	0-50ppm or 0-0.40FLU
Resolution	0.01ppm
Precision	±3% F.S.
The detection limit	According to the actual oil sample
Linearity	$R^2 > 0.999$
Protection	IP68
Depth	10 meters underwater
temperature range	0 ~ 50 °C
Sensor interface	Support RS-485, MODBUS protocol
Installation	Submerged
Sensor Size	Φ45*175.8 mm
Power	DC 5~12V, current <50mA (when not cleaned)
Cable length	10 meters (default), can be customized
Housing material	316L (customized titanium alloy)
Self-cleaning system	yes