Digital Oil Sensor Series

CS6900CD

Review

Commonly used oil-in-water detection methods include suspension method (D/λ<=1), infrared spectrophotometry (not suitable for low range), ultraviolet spectrophotometry (not suitable for high range), etc. The online oil-in-water sensor adopts the principle of fluorescence method. Compared with several commonly used methods, the fluorescence method is more efficient, quicker and more reproducible, and can be monitored online in real time. The sensor has better repeatability and stability. With an automatic cleaning brush, it can eliminate air bubbles and reduce the impact of contamination on the measurement, making the maintenance cycle longer, and maintaining excellent stability during long-term online use. It can act as an early warning to the pollution of oil in water.
The ultraviolet fluorescence method is used to monitor the oil content in the water body, and the oil concentration in the water body is quantitatively analyzed based on the fluorescence intensity emitted by the petroleum and its aromatic hydrocarbon compounds and compounds containing conjugated double bonds after absorbing ultraviolet light. Aromatic hydrocarbons in petroleum can produce fluorescence under the excitation of ultraviolet light, and the value of oil in water can be calculated according to the intensity of fluorescence.

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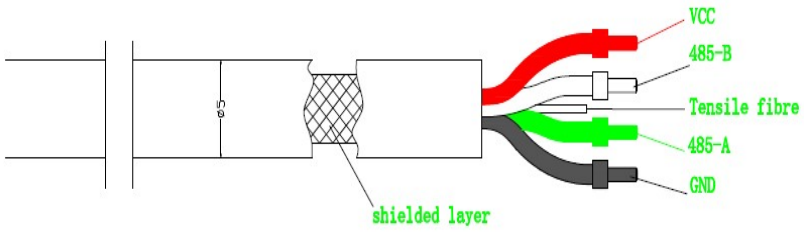
Digital sensor, MODBUS RS-485 output,
With automatic cleaning brush to eliminate the influence of greasy dirt on the measurement.
Unique optical and electronic filtering technology, not affected by suspended particles in water

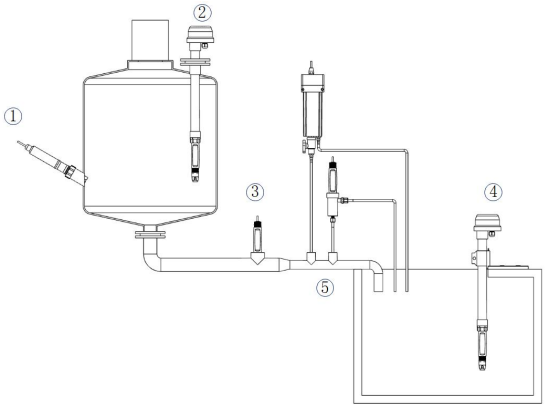
Wiring



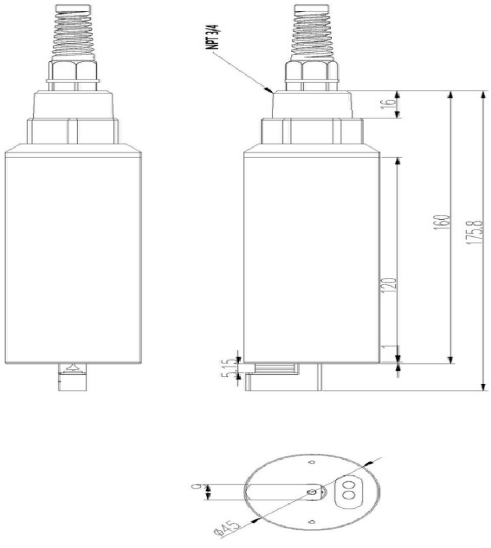
Waterproof IP68

Adopt PTFE large ring diaphragm, long life time

Installation



(Common electrode installation)



(Overall dimension drawing)

(Mounting brackets)

CS6900CD Digital Oil Sensor

Model No.	**CS6900CD**
Power/Outlet	9~36VDC/RS485 MODBUS RTU
Measure Principle	Fluorescence
Dimensions	ϕ45*175.8mm
Housing material	316L Stainless steel
Waterproof rating	IP68
Measurement range	0-200ppm
Resolution	0.1ppm
Accuracy	±3% F.S
Pressure resistance	≤0.3Mpa
Measuring Temperature	0-50℃
Calibration	Sample calibration, standard liquid calibration
Cable length	Standard 10m cable, can be extended to 100m
Installation thread	G3/4
Application	General application,river,lake,environmental protection etc.