

Online Sludge Concentration Sensor

Introduction

sludge concentration sensor adopts 135° back light principle, 880nm infrared LED light source, adopts unique adaptive software algorithm, which can effectively remove external light interference. Fiber-optic construction for excellent repeatability and stability. The use of an automatic cleaning brush eliminates air bubbles, reduces the effects of contamination on the measurement, and allows for longer maintenance intervals and excellent stability over long-term online use.



Feature

- Digital sensor, RS-485 output, support MODBUS
- With automatic cleaning brush to prevent contamination and eliminate air bubbles
- Compensate the color of the water to eliminate the interference of color on the measurement
- Fiber-optic structure, not affected by ambient light

Technical Specifications

Item	Self-cleaning Sludge Concentration Sensor
Model	20101893
Principle	135° back light
Measuring Range	0-4000 mg/L
Accuracy	<3%
Protection Rate	IP68
Deepest Depth	underwater 10 meters
Temperature Range	0 ~ 50°C
Output	support RS-485, MODBUS protocol
Power Supply	DC 5~12V, current <50mA (when not clean)
Installation	Input type
Size	Φ33mm*156mm
Probe Cable Length	10 m, 5 m, 15 m and 30 m cable customizable
Self-Cleaning System	Yes
Casing Material	POM
Optical Window	optical fiber