PDS-300 Transparency Online Analyzer

Measurement Principle

Water body transparency is an important indicator for determining the black odor level of black odorous water bodies. The PDS-300 sensor is based on the combined infrared absorption and scattering method. The infrared light emitted by the light source is scattered by the water sample. Finally, the electrical signal detected by the photoelectric monitor is converted into a transparency value.



Features

- Built-in self-diagnosis function to ensure accurate data.
- Reverse polarity protection of sensor power.
- With time display, data storage and historical data viewing functions.
- The sensor adopts dual-beam infrared scattering photometer detection technology, which has good repeatability and stability.Optional data wireless transmission module.
- Optional cleaning brush automatic cleaning function, greatly reducing the amount of sensor maintenance.
- Digital sensor with strong anti-interference ability and long transmission distance.
- Standard digital signal output, which can be integrated and networked with other equipment without a transmitter.
- On-site installation of the sensor is convenient and quick, enabling plug and play.
- The sensor RS485 A / B end is connected to the power supply for protection.

Applications

- Transparency is an important indicator for determining the black odor level of black odorous water bodies, and is especially suitable for online monitoring of black odorous water bodies;
- Applicable to online monitoring of water body transparency of surface water and aquaculture industries in cities such as inland rivers, lakes and reservoirs.

Technical Specifications

Measuring Range	2-100cm
Measurement Accuracy	±0.3cm or value's 5%
Pressure range	≤0.4Mpa
Flow rate	≤2.5m/s、8.2ft/s
Power supply	AC Power：85-500VAC；DC Power：9-36VDC
Output	3 way 4-20mA
Relay	Three-way relay, program setting response parameter and response value
Protocol	MODBUS　RS485
Storage temperature	-15 to 50℃
Operating temperature	0 to 45℃(Not freezing)
Size	Sensor：D60mm*L254mm Transmitter：145*125*162mm（L*W*H）
Weight	Sensor：1.65KG；Transmitter：1.35KG
Protection class	Sensor：IP68/NEMA6P；Transmitter：IP66/ NEMA4X
Cable length	Standard 10m cable, can be extended to 100m

Probest Intelligent Technology Co., Ltd.
Email: probest@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com