PSS-800 SS（Sludge Concentration）On-line Analyzer

Measurement Principle



PSS-800 SS (Sludge Concentration)Sensor is based on the method of combination of infrared absorption scattered light.e infrared light emitted by the light source is scattered by the suspended particles in the sample, and finally converted into an electrical signal by a photodetector, and the sludge concentration of the sample is obtained after analog and digital signal processing.

Features

- The sensor adopts dual-beam infrared scattered light.
- photometer detection technology and has good repeatability and stability.
- Built-in self-diagnosis function to ensure the accuracy of data. Plug-and-play sensors quick and easy installation.
- Optional cleaning brush of automatic cleaning function to reduce the maintenance of sensor.
- Use ISO7027 Standard Method (Infrared light scattering technique) to eliminate effects of sample color.
- Digital sensor high anti-jamming capacity and far transmission distance.
- Standard digital signal output can achieve integration and networking with other equipment without controller.

Applications

- Sludge concentration of technological process of sewage treatment plant.
- Online monitoring of industrial process water and Suspended solids (sludge concentration) of waste water treatment process.

Technical Specifications

Measurement range	0.01-20000 mg/L,0.01-45000 mg/L,0.01-120000 mg/L
Measurement accuracy	Less than the ±5% of measured value. (Depending on the homogeneity of sludge)
Resolution	0.01-1mg/L base on range
Repeatability	±2%
Pressure range	≤0.4Mpa
Flow rate	≤2.5m/s、8.2ft/s
Calibration	Sample Calibration, Slope Calibration
Main material	Body：SUS316L (fresh water)，Titanium alloy (marine)；Cable：PUR
Power supply	AC：85-500VAC;DC：9-36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor: Dia. 60mm*Length 261mm, Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：1.65KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP66/ NEMA4X
Cable length	Standard:10m,the maximum may be extended to 100m

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