PSS-600 SS（Sludge Concentration）On-line Analyzer

Measurement Principle

PSS-600 Sensor is based on the method of combination of infrared absorption scattered light.Infrared light which the photosource sends out scattered by suspended particles in the sample.And finally converted to electrical signals by photoelectric detector and getting the suspended solids concentration of the sample after treatment by analog and digital signals.



Features

- The sensor adopts the method of combination of infrared absorption scattered light.
- Optional cleaning brush of automatic cleaning function to reduce the maintenance of sensor.
- Digital sensor,high anti-jamming capacity and far transmission distance.
- Standard digital signal output,can achieve integration and networking with other equipment without controller.
- Plug-and-play sensors,quick and easy installation.
- Sensor power supply positive and negative reverse connection protection
- Sensor RS485 A/B terminal is connected to the power supply protection
- With time display, data storage and historical data viewing function;
- Optional data wireless transmission module.

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.
- Online monitoring of sewage plant outlets, municipal pipe network water quality, and pollution source discharge outlets

Technical Specifications

Measurement range	0.01-1000mg/L,100-50000mg/L
Measurement accuracy	Less than ±10% of the measured value (depending on the homogeneity of the sludge) or 10 mg/L, bigger one
Repeatability	±3%
Resolution	0.01mg/L-1mg/L,base on range
Pressure range	≤0.4Mpa
Calibration	Sample Calibration,Slope Calibration
Main material	Body:SUS316L（fresh water）;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
Storage temperature	-15-50℃
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor:Dia 49mm*Length 230.5mm,Transmitter:145*125*162mm(L*W*H)
Weight	Sensor:0.8KG；Transmitter:1.35KG
Protective rate	Sensor:IP68/NEMA6P;Transmitter:IP66/ NEMA4X
Cable length	Standard:10m,the maximum may be extended to 100m

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