PTU-800 Turbidity Online Analyzer

Measurement Principle



PTU-800 Turbidity Sensor is based on the method of combination of infrared absorption scattered light. Infrared light which the photo source sends out scattered by suspended particles in the sample And finally converted to electrical signals by photoelectric detector and getting the turbidity value of the sample after treatment by analog and digital signals.

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.
- Optional cleaning brush of automatic cleaning function to reduce the maintenance of sensor.
- Digital sensor high anti-jamming capacity and far transmission distance.
- Use ISO7027 Standard Method (Infrared light scattering technique) to eliminate effects of sample color.
- Standard digital signal output can achieve integration and networking with other equipment without controller.
- Plug-and-play sensors quick and easy installation.

Applications

- Turbidity online monitoring of water inlet, settling basin of water plant.
- Turbidity online monitoring of sewage plant, industrial process water and waste water treatment.

Technical Specifications

Measurement range	0.01-100 NTU,0.01-4000 NTU
Measurement accuracy	Less than±2% of the measured reading or ±0.1NTU,whichever is greater
Resolution	0.01~0.1NTU,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）
Dimension	Sensor：Dia. 60mm*L261mm;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