PLTU-700 Low-Range Turbidity Online Analyzer

Measurement Principle

PLTU-700 low-range turbidity sensor guides the parallel light emitted by the light source downward into the water sample in the sensor. The light is scatte red by the suspended sludges, and the scattered light at 90 degrees from the incident Angle is received by the silicon photocell receiver immersed in the w ater sample. The turbidity value is obtained by calculating the relationship bet ween the 90 degrees scattered light and the incident light beam.



Features

- Stable data and good repeatability.
- Simple clean and maintenance.
- A scattering turbidity meter with continuous readings, designed for low - range turbidity monitoring.
- Plug-and-play sensors quick and easy installation.

Applications

- Turbidity online monitoring of filtration of water plant, product Water and direct drinking water system.
- Turbidity online monitoring of recirculating cooling water and filter water in all kinds of industrial production and water reuse system.

Technical Specifications

Measurement range	0.001-100 NTU
Measurement Accuracy	±2% of the reading or ±0.015NTU when the range is 0.001-40NTU,whichever is greater; ±5% of the reading when the range is 40-100NTU
Resolution	0.001~0.1NTU,base on range
Repeatability	±2%
Water flow	300ml/min≤X≤700ml/min
Calibration	Sample calibration, Slope calibration
Pipe Fitting	Inlet：1/4NPT；Outlet：1/2NPT
Main material	Body：ABS + SUS316L； Seal: Butyl Cyanide Rubber；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	-15-60℃
Measuring temperature	0-45℃（Non-freezing）
Dimension	Sensor：304 *207*392.5mm(L*W*H),Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：2.1KG；Transmitter：1.35KG
Protective rate	Sensor：IP65(Indoor)；Transmitter：IP66/ NEMA4X
Cable length	Standard: 3m,not recommend to extend.

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