

BSTU-700 LOW-RANGE TURBIDITY ONLINE ANALYZER



■ Measurement Principle

Incident light of BSTU-700 Low-Range Sensor is produced by the tungsten light whose color temperature's absolute temperature is between 2200 degrees to 3000 degrees. Guiding the parallel light assembled by the tungsten light down into the water sample of the sensor, the light is scattered by suspended particles in water samples, and the scattered light that is with a ninety degree angle to the angle of incidence is received by the silicon photocell receiver in the water sample, measuring the turbidity by calculating the relationship with 90-degree scattered light and the incident beam.

■ Features

- ◆ A scattering turbidity meter with continuous readings, designed for low-range turbidity monitoring.
- ◆ Stable data and good repeatability.
- ◆ Simple clean and maintenance.
- ◆ 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
Water flow	300ml/min ≤ X ≤ 700ml/min
Calibration	Standard solution calibration, water sample calibration, zero 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 (50/60HZ) 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°C
Measuring temperature	0-45°C (Non-freezing)
Dimension	Sensor : 310 * 210 * 410mm(L*W*H) Transmitter : 145 * 125 * 162mm(L*W*H)
Weight	Sensor : 2.1KG ; Transmitter : 1.35KG
Protective rate	Sensor : IP65(Indoor) ; Transmitter : IP65/ NEMA4X
Cable length	Standard: 3m, not recommend to extend.