SH-TUR200 Turbidity digital sensor

Overview

The SH-TUR200 turbidity digital sensor uses the infrared 90° nephelometric method with its own cleaning brush and has calibration, recording, analysis and diagnostic functions. The sensor adopts RS485 interface and standard Modbus protocol.

Product features

- 90° infrared light scattering method, independent of chromaticity
- Self-cleaning function, remove water samples of adherents and air bubbles, maintenance-free
- Optical and digital filtering technology to eliminate the effects of stray light
- Internal storage of calibration data
- Corrosion-resistant housing, waterproof grade IP68, can work underwater for a long time
- RS485 communication interface, standard Modbus protocol for easy integration.

Technical specifications

Working principle	90° infrared light scattering method
Meas. Wavelength	850 nm
Measurement range	(0~400/1000/4000) NTU, other ranges can be customized
Repeatability	≤1 %
Accuracy	±5 %
Zero drift (24h)	1% F.S.
Range drift (24h)	3 % F.S.
Detection limit	0.1 NTU
Resolution	0.01 NTU
Protection class	IP68
Comm. Interface	RS485, standard Modbus protocol, baud rate 9600
Dimensions	(ϕ33*178) mm/(ϕ16*180) mm, cable 10m (customizable)
Materials	316 Stainless-steel/PVC/POM/Titanium alloy available
Weight	0.5 kg
Mounting threads	Upper NPT3/4 thread
Operating voltage	9~36 Vdc
Power absorption	1 W (motor brushes rotating), 0.4 W (motor brushes not working)
Cleaning method	Mechanical brush
Calibration period	3-6 months
Max. depth	30 meters
Operating temp.	(0~50) °C

Product Applications

- Environmental surface water, municipal **and** industrial wastewater, industrial process water