

SH-COL200 Color digital probe

● Overview

The Color online digital probe is a dual-beam, probe-type intelligent device, which effectively reduces turbidity interference through automatic compensation, and comes with a cleaning brush to avoid the influence of adherents and air bubbles on the measurement. The probe adopts RS485 interface and standard Modbus protocol to quickly react to the change of water color.



● Product features

- Self-cleaning function removes light window stains and air bubbles, maintenance-free
- Automatic compensation for turbidity interference
- 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	Spectrophotometric method
Measurement range	0-500 Hazen
Linearity	$R^2 > 0.999$
Turbidity precision compensation range	0-60 NTU
Accuracy	$\pm 2\%$
Zero drift (24 h)	$\pm 1\%$ F.S.
Span drift (24 h)	$\pm 3\%$ F.S.
Repeatability	$\leq 1\%$
Response time	$T_{90} \leq 30$ sec
Protection class	IP68
Comm. interface	RS485, standard Modbus protocol, baud rate 9600
Dimensions	($\phi 46 \times 221$) mm, cable 10 m (customizable)
Weight	Around 1 Kg
Materials	AISI 316 stainless steel
Maximum pressure	3 bar
Operating voltage	9~24 Vdc
Cleaning method	Mechanical brush
Calibration period	1-3 months
Operating temp.	(0~50) °C (non freezing)

- **Product applications**

- Environmental surface water, municipal sewage, industrial wastewater