

KWS-950 Online TSS Sensor

Introduction

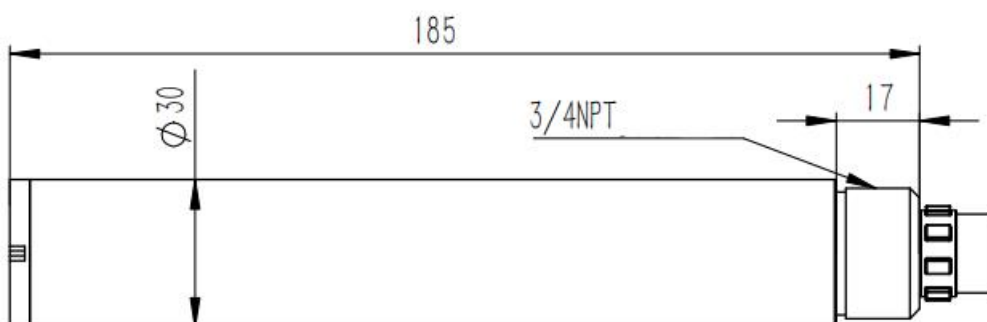
The KWS-950 integrated online TSS sensor is designed and manufactured using the principle of scattered light suspension measurement. When a beam of light is incident on a water sample, the light is scattered by the suspended matter in the water sample, and the scattered light in the water sample is calculated by measuring the intensity of the scattered light perpendicular to the incident light and comparing it with the internal calibration value, linearized to output the final value.



Feature

- 0 to 50 °C; IP68 Protection, water depth within 20 meters
- Principle of scattered light, built-in temperature sensor
- Support RS-485, Modbus/ RTU protocol
- Fiber-optic structure, strong resistance to external light interference
- Infrared LED light source, high stability
- Convenient, fast, stable and easy to maintain

Dimensions



Technical Specifications

Model	KWS-950
Casing Material	316L
Measuring Principle	Scattered light method
Measuring Range	0~200.0 mg/L 0~2000.0 mg/L
Resolution	0.1mg/L
Accuracy	±5% (depending on sludge homogeneity); ±0.3℃
Response Time (T90)	<30s
Minimum Detection Limit	1mg/L
Calibration Method	Two-point calibration
Cleaning Method	/
Temperature Compensation	Automatic temperature compensation (Pt1000)
Output Method	RS-485 (Modbus RTU), 4-20 mA (optional)
Working Conditions	0 to 50 °C, < 0 .2MPa
Storage Temperature	- 5 to 65 °C
Operating Conditions	0~40℃ , ≤0.2MPa
Installation Method	Immersion mounting, 3/4" NPT thread
Power Consumption	0.3W@12V
Power Supply	12 ~ 24 VDC
Protection Level	IP68
Cable Length	5 meters, other lengths can be customized