KWS-150 Online COD Sensor

Introduction

Many organic compounds dissolved in water absorb UV light. Therefore, by measuring the degree of absorption of 254nm wavelength ultraviolet light by these organic substances, the content of dissolved organic pollutants in water can be accurately measured.
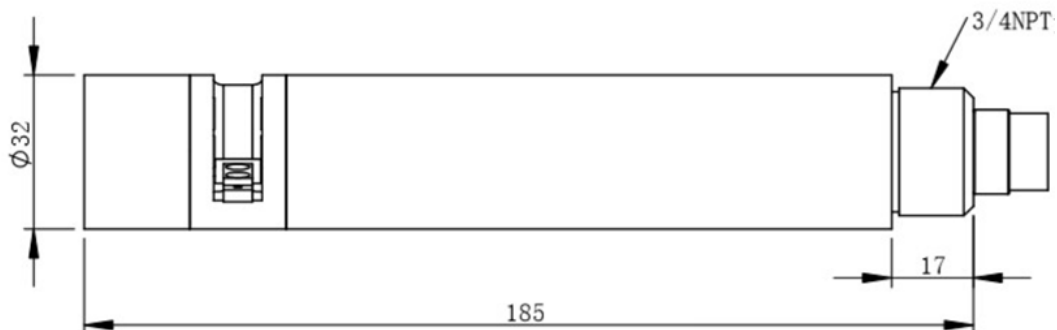
KWS-150 online COD sensor uses two light sources, one ultraviolet light is used to measure the COD content in water, and one reference light is used to measure water turbidity. In addition, a specific algorithm is used to compensate for the attenuation of the light path and eliminate granularity to a certain extent. interference from suspended impurities, thereby achieving more stable and reliable measurement

Feature

- No reagents required, no pollution, economical and environmentally friendly
- Small size, easier to install, and capable of continuous online water quality monitoring
- Can measure parameters such as COD, turbidity and temperature
- Automatic compensation for turbidity interference
- Comes with cleaning brush to prevent biological adhesion
- Small drift, fast response, and more accurate measurement
- Excellent stability even for long-term monitoring
- Maintenance-free, long service life, low cost of use
- Digital sensor, RS-485 interface, Modbus/RTU protocol
- Low power consumption and anti-interference design

Dimension

Technical Specifications

Model	KWS-150	
Measurement Principle	Dual-wavelength UV absorption method	
Measuring Range	COD	Turbidity
	0～200mg/L equiv. KHP	0～100NTU
	0～500mg/L equiv. KHP	0～200NTU
	0～1500mg/L equiv. KHP	0～1000NTU
COD Accuracy	±5%	
Response Time (T90)	＜10s	
Lowest Detection Limit	0.2mg/L（0-200mg/L）	
	0.4mg/L（0-500mg/L）	
COD Resolution	0.1mg/L	
Turbidity Accuracy	±5%	
Turbidity Resolution	0.1NTU	
Calibration Method	two-point calibration	
Output Method	RS-485（Modbus/RTU）	
Power Supply	12～24VDC	
Power Consumption	0.4W@12V（working）	
	2W@12V（cleaning）	
Storage Temperature	-5～65℃	
Working Conditions	0～50℃，＜0.2MPa	
Protection Level	IP68	
Cable Length	5 m, customizable	
Casing Material	316L stainless steel	