

## KWS-100 Online COD Sensor Datasheet

### 1.Introduction

Many organic substances dissolved in water absorb ultraviolet light. Therefore, the total amount of organic pollutants in water can be measured by measuring the absorption of 254nm wavelength of these organic substances. KWS-100 uses two light sources, one 254nm ultraviolet light and one 850nm infrared light, which can automatically compensate for the influence of light path attenuation and turbidity to achieve more stable and reliable measurement values.

KWS-100 does not require reagents, is pollution-free, and is more economical and environmentally friendly. Water quality monitoring can be carried out online for a long time. Automatically compensate for turbidity interference, with automatic cleaning device, it still has excellent stability even for long-term monitoring.

### 2.Features

- Digital sensor, RS-485 output, support Modbus
- No reagents, no pollution, more economical and environmentally friendly
- Can measure parameters such as COD, TOC, turbidity and temperature
- Automatically compensates for turbidity disturbances for excellent test performance
- With self-cleaning brushes to prevent biofouling and longer maintenance intervals

### 3.Technical Parameters

Model	KWS-100
COD Range	0.5 to 500mg/L equiv. KHP
COD Accuracy	±5% equiv. KHP
COD Resolution	0.01mg/L
TOC Range	0.3 to 150mg/L equiv. KHP
TOC Accuracy	±5% equiv. KHP
TOC Resolution	0.01mg/L
Turbidity Range	0-300 NTU
Turbidity Accuracy	±5% or 0.5 NTU
Turbidity Resolution	0.01 NTU
Material	POM and 316L (Titanium customizable)
Operating Temperature	0~50℃ (no freezing)
IP Rating	IP68
Output	RS485, Modbus

Power Supply	DC12V-24V
Sensor Diameter	50mm
Sensor Length	214mm
Calibration	Support one point and two-points calibration
Max. Pressure	3 bar

## 4.Dimension

