

# COD-602CD Chemical Oxygen Demand (COD) Sensor

COD sensor is a UV absorption COD sensor, combined with a lot of application experience, based on the original basis of a number of upgrades, not only the size is smaller, but also the original separate cleaning brush to do one, so that the installation is more convenient, with higher reliability. It does not need reagent, no pollution, more economic and environmental protection. On-line uninterrupted water quality monitoring. Automatic compensation for turbidity interference, with automatic cleaning device, even if long-term monitoring still has excellent stability

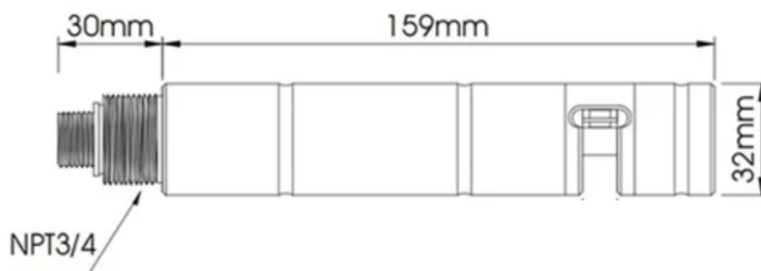
## Working Principle

Many organic compounds dissolved in water are absorbent to ultraviolet light. Therefore, the total amount of organic pollutants in the water can be measured by measuring the extent to which these organics absorb ultraviolet light at 254nm. The sensor uses two light sources 254nm UV and reference light 365nm UV to automatically eliminate suspended matter interference, resulting in more stable and reliable measurements.

## Feature

- Digital sensor, RS-485 output, support Modbus
- No reagent, no pollution, more economic and environmental protection
- Automatic compensation of turbidity interference, with excellent test performance
- With self-cleaning brush, can prevent biological attachment, maintenance cycle more

## Dimension



*Digital COD UV  
Absorption Sensor with  
Automatic Cleaning*

## Technical Information

Specification	Description
Measurement principle	UV absorption wavelength 254 nm
Transmitter interface	RS485 MODBUS RTU direct communication or with transmitter
COD measurement range	0.1 ~ 500 ppm
COD measurement accuracy	±5% equivalent to KHP
TOC measurement range	0.1 ~ 200 ppm (relative value from COD)
BOD measurement range	0.1 ~ 300 ppm (relative value from COD)
Turbidity measurement range	0.1 ~ 500 NTU (only for compensation)
Operation temperature	0 ~ 50 °C
Sensor material	Stainless steel
Sensor cleaning	Build in automatic cleaning
Protection IP Rating	IP68
Maximum pressure	10 bar
Power requirements	24VDC
Sensor Connection	Thread mount ¾" M-NPT
Size and dimension	OD 32mm / length 159mm
Cable Length	10m (default)