

UV254 Multi-wave COD Sensor

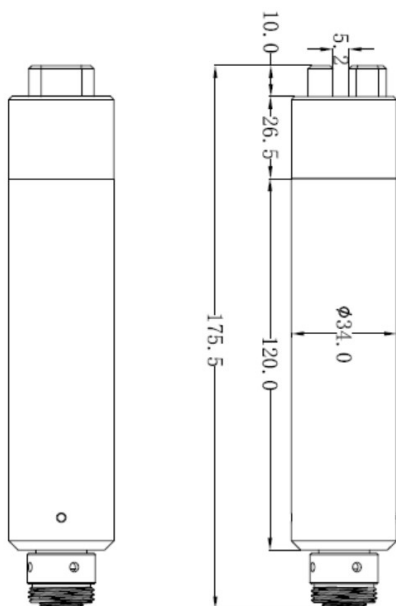


UV254 correlated parameters₁ : COD TOC BOD DOC

The BroadSensor UV254 sensor is an optical-based absorption and transmittance with UV LED and PD technology sensor. The sensor measures the absorption at 254nm and 550nm at the same time to compensate the SAC measurement for interferences from turbidity and color.

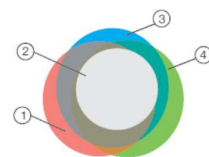
Key Advantages:

- 2 wavelength absorption measurement: 254nm and 550nm for turbidity and color compensation.
- SAC measurement used to determine organic loading without reagents.
- Measurement directly in the process, no sample processing or reagent required.
- Fast response, minimum 10 second.
- Cold light source (UV LED) and rugged PD, long life time and low drift.
- Support leakage alarm



Note:

1. Only one parameter can be displayed at a time.
2. The relationship between COD BOC SAC and TOC(from Hach)



Substance groups measured

1. COD	3. SAC
2. BOD	4. TOC

Specification



Technical Specifications

Measurement Method	Absorption measurement at 254 nm, DIN 38402 C2, DIN 38404
Range	6mm cuvette gap 0.15~300mg/L equiv. KHP(COD solution)
Resolution	0.1mg/L or 0.01mg/L COD
Repeatability	+/-1% FS equiv. KHP
Operating temperature	0~45°C
Storage Temperature	-10~50°C
Clean system	No wiper system
Warranty	1 year
Depth	IP68, 10m Max
Power	5~12V 15mA (normal)
Output	RS485 and Modbus protocol
Materials	S316, POM, Nylon, PUR, quartz glass
Dimensions	Length 170.5mm, diameter 34mm
Flow rate	< 3 m/s
Response time	Minimum 10s T90
Field life	Sensor 3 years or greater
Recommended Calibration maintain Frequency	Sensor 3 months

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Order info:

PN: 610811 Max range 300mg/L

PN: 810003 PUR cable