



UV254 correlated parameters ₁ : COD TOC BOD SS Turbidity



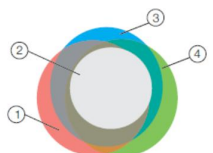
The BroadSensor UV254 sensor is an optical-based absorption and transmittance with UV LED and PD technology sensor. The sensor measures the absorption at 254nm and 550nm at the same time to compensate the SAC measurement for interferences from turbidity and color.

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, TOC and BOD are calculated from COD, SS and turbidity is from SAC of 550nm.
- 2, The relationship between COD BOC SAC and TOC(from Hach)



Substance groups measured			
1. COD	3. SAC		
2. BOD	4. TOC		

Technical Specifications

Measurement Method	Absorption measurement at 254 nm, DIN 38402 C2, DIN 38404, HJ/T191 standard
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	Auto wiper system(default)
Warranty	1 year
Depth	IP68, 10m Max
Power	5~12V 15mA (normal)
Output	RS485 and Modbus protocol
Materials	SS316, POM, quartz glass
Dimensions	Length 194mm, 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

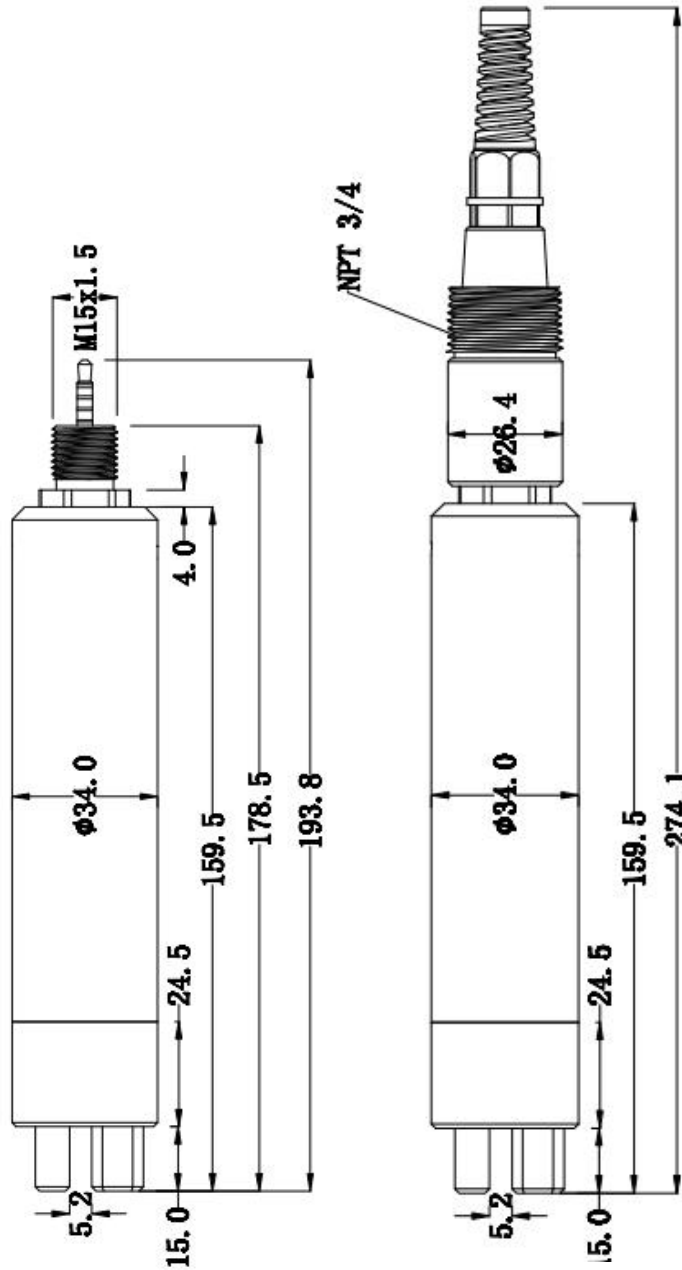
Note:

*Field life and calibration frequency dependent on site conditions.

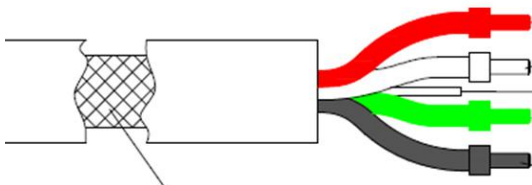
Dimensions Cable information



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蛙视传感



Note:
1, Unit: mm
2, Tolerance: $\pm 0.5\text{mm}$



Red--VCC
White--RS485-B
Bare—Shielding
Green--RS485-A
Black--GND



Sensor	Clean frequency*	Clean frequency**	Check inside humidity	Replace O-ring	Calibration frequency	Replace consumable part
Optical DO	1-4 days	4-8 weeks	6 months	12-24 months	6 months	24-36 months
Conductivity	4-8 weeks	4-8 weeks	6 months	12-24 months	6 months	No consumable part
Turbidity	0.5-3 days	4-8 weeks	6 months	12-24 months	3 months	No consumable part
Chlorophyll a	0.5-3 days	4-8 weeks	6 months	12-24 months	3 months	No consumable part
BGA	0.5-3 days	4-8 weeks	6 months	12-24 months	3 months	No consumable part
NH4-N	0.5-3 days	4-8 weeks	6 months	12-24 months	2-3 weeks	3-6 months
pH	0.5-3 days	4-8 weeks	6 months	12-24 months	4-8 weeks	6-12 months
UV254 COD	0.5-3 days	4-8 weeks	6 months	12-24 months	3 months	No consumable part
Oil in water	0.5-3 days	4-8 weeks	6 months	12-24 months	3 months	No consumable part
CDOM/fDOM	0.5-3 days	4-8 weeks	6 months	12-24 months	3 months	No consumable part
Wiper	4-8 weeks	4-8 weeks	NA	18 months	NA	18 months***

Note:

- 1, * is without wiper system
- 2, ** is with wiper system.
- 3, *** are dynamic sealing parts
- 4, The O-ring between sensor and wiper is required to replace every 12 months.
- 5, Field life and calibration frequency dependent on site conditions.

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Order info:

PN: 610812 Max range 300mg/L

PN: 810005-xx PUR cable

xx is cable length, unit is meter