

Datasheet

COD Sensor

SUP-COD7000

Supmea®

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COD sensor
SUP-COD7000

Self-cleaning COD sensor SUP-COD7000 is based on the UV absorption principle, does not need reagents, will not cause pollution, more environmental protection; Integrated self-cleaning brush, easy toinstall anduse, even long-term online monitoring still has excellent stability.

The product is widely used in sewage plant, water plant, water station, surface water, farming, industry and other fields

Applications

- Water Plant
- Water Station
- Surface Water
- Farming
- Sewage



COD sensor SUP-COD7000

Features

- Digital RS-485 output, Modbus protocol
- Measurement of parameters such as COD, TOC
- With self-cleaning brushes to prevent biological adhesion and longer maintenance intervals
- High accuracy
- Proven UVC LED technology, long lifetime, stable and instant measurement

Principle

The COD sensor measures organic compound concentration in water by UV absorption method, using 254nm wavelength, which can eliminate the inteference from visible light and turbidity.

Parameters	
Measurement Range	0-500 mg/L
Measurement Accuracy	Less than ± 5%
Repeatability	±2%
Resolution Ratio	0.01 mg/L
Pressure Range	≤ 0.1Mpa
Flow velocity	>0.02 m/s
Material	Main Body: SS Upper and Lower Cover：POM；Cable: PUR
Power Supply	12VDC
Communication Protocol	MODBUS RS485
Operating Temperature	0~45℃（not freeze）
Response time	10 s
Level of Protection	IP68/NEMA6P
Cable Length	Standard 10-Meter Cable

Wiring

The sensor is properly connected with the following core definitions:

No.	Color	Wiring definition
1	Brown	+12VDC
2	Blue	AGND
3	White	RS485 A
4	Black	RS485 B