



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

COD Sensor

SUP-ADS2000

Supmea[®]

Committed to process automation solutions

Tel: 86-15158063876

E-mail: info@supmea.com

www.supmea.com

Datasheet**COD Sensor
SUP-ADS**

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

Parameters**Applications**

- Domestic sewage
- Plastics industry
- Surface water
- Underground pipe networks
- Food & Pharmaceuticals
- Aquaculture water

**Features**

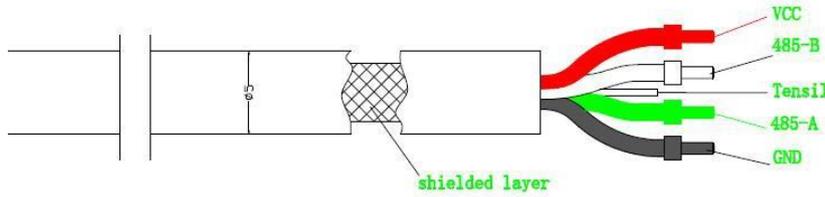
- Digital RS-485 output, Modbus protocol
- Proven UVC LED technology, long lifetime, stable and instant measurement
- Measurement of parameters such as COD, TOC, turbidity and temperature
- With self-cleaning brushes to prevent biological adhesion and longer maintenance intervals

COD Sensor

Parameter			
Sensor type	Regular small range	Conventional large range	Economy
Light source	Imported UV 254 nm LED with 550 nm turbidity compensation	Imported UV254 nm LED, 550 nm turbidity compensation	UV 275 nm LED with 550 nm turbidity compensation
Measuring range	(0~500) mg/L equiv.KHP	(0~1500) mg/L equiv.KHP	(0~500) mg/L equiv.KHP
Accuracy	± 5%		
Temperature measuring range	(0~50) °C		
Communication output	RS485, Modbus protocol		
Power supply	(12~24)VDC, ≥1A		
Power consumption	No cleaning brush activated: power consumption ≤ 0.25W		
	Start cleaning brush: power consumption ≤ 1W (conventional small range, economic models) power consumption ≤1.8W (conventional large range)		
Process pressure	≤0.3MPa		
Sensor size	Φ 50mm*179mm	Φ 50mm*179mm	Φ 46mm*176mm
Cable length	10m (default), customizable		

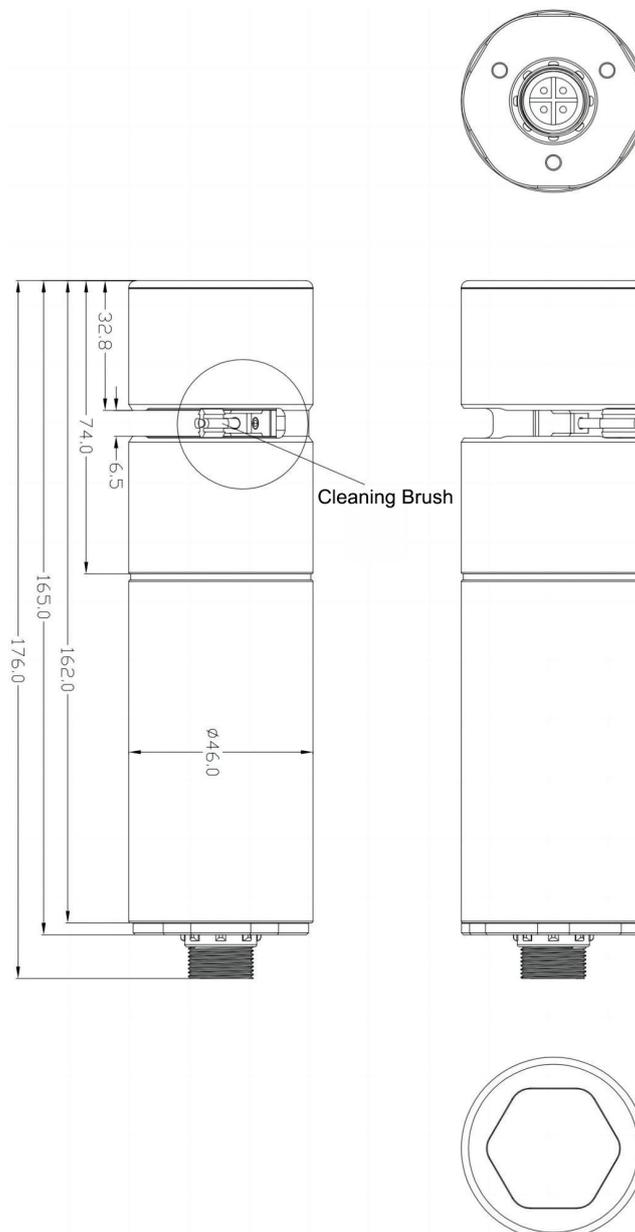
Wiring

4 wire AWG-24 OR AWG-26 shielding wire. OD=5.5mm



- 1, Red—Power (VCC)
- 2, White—485 Date_B (485_B)
- 3, Green—485 Date_A (485_A)
- 4, Black—Ground (GND)

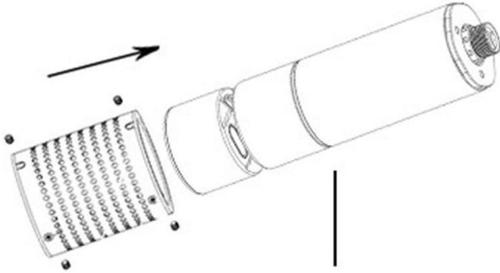
Dimension



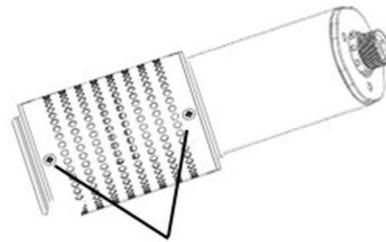
Installation

Protective cover installation:

After unpacking of the sensor, install a protective probe cover onto the sensor, as shown in the figure below (4 screws on the cover shall be tightened).



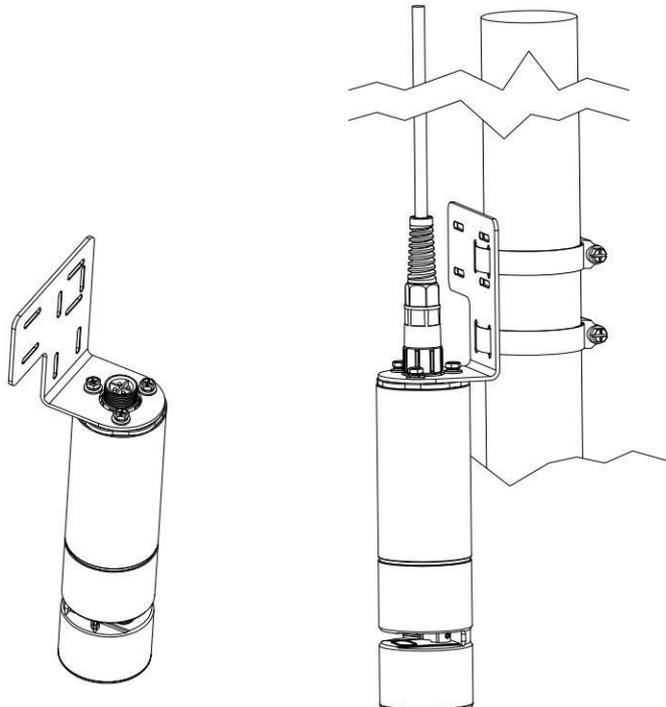
Loose 4 screws on the protection cover, and then slid the cover on the sensor gap.



Tighten the screws to complete installation

Fixed installation on site:

It is suggested to carry out a fixed installation in the following two ways as shown in Figure (1) and Figure (2).



Elbow installation in Figure (1) is good for environment with no rapid water flow and less debris.

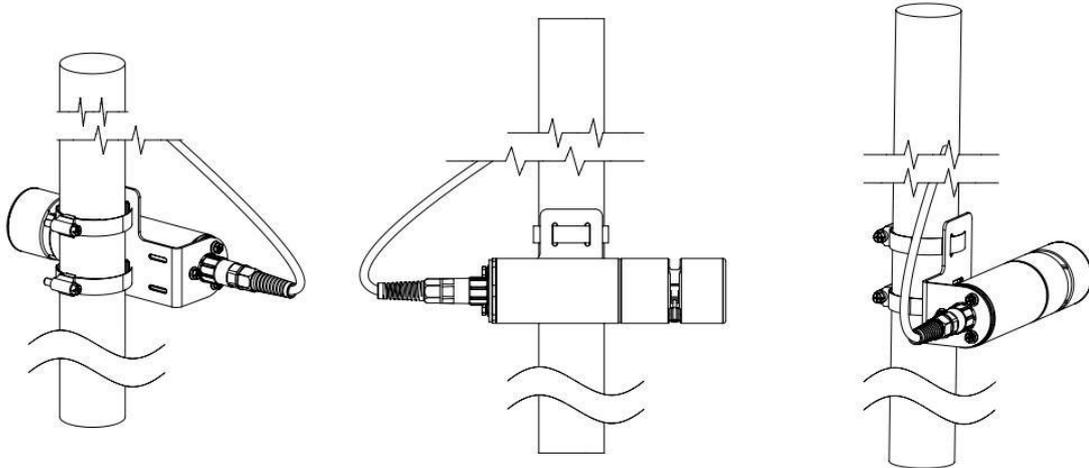


Fig. (2) is an illustration for plate installation, which provide a stable installation in rapid water

Ordering code

SUP-ADS2000										Description	
SUP-ADS2000	-	-	-	-	-	-	-	-	-	-	(0-500) mg/L, Light Source: UV 275nm LED
Type	A										(0-500) mg/L, Imported Light Source: UV 254nm LED
	B										(0-1500) mg/L, Imported Light Source: UV 254nm LED
	C										
Output	A										RS485
Power supply	B										12VDC(12-24VDC)
Cable Length				10							10m
				20							20m
				30							30m
				XX							Other
Housing Material					M3						SS316L
					T1						Titanium(Suitable for seawater)