Online COD Meter   SC6000UVCOD
Function

Industrial online COD monitor is an online water quality monitor and control instrument with microprocessor. The instrument is equipped with UV COD sensors. The online COD monitor is a highly intelligent online continuous monitor. It can be equipped with UV sensor to automatically achieve a wide range of ppm or mg/L measurement. It is a special instrument for detecting COD content in liquids in environmental protection sewage related industries.

Typical Use

The online COD monitor is a special instrument for detecting COD content in liquids in environmental protection sewage related industries. It has the characteristics of fast response, stability, reliability, and low use cost, and is suitable for large-scale use in water plants, aeration tanks, aquaculture, and sewage treatment plants.
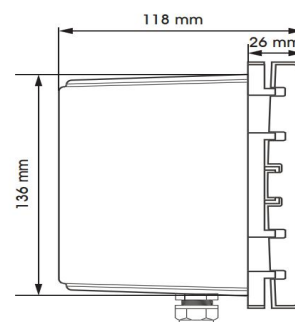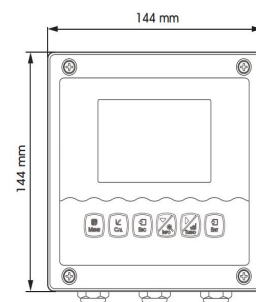
Mains Supply

85~265VAC±10%,50±1Hz, power ≤3W;

9~36VDC, power consumption≤3W;

Measuring Range

COD: 0~1500mg/L;

Customizable measuring range, displayed in ppm unit.

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Features

1. Large display, standard 485 communication, with online and offline alarm, 144*144*118mm meter size, 138*138mm hole size, 4.3 inch large screen display.

2. UV light source electrode adopts optical physics principle, no chemical reaction in the measurement, no influence of bubbles, aeration/anaerobic tank installation and measurement are more stable, maintenance-free in the later period, and more convenient to use.

3. The data curve recording function is installed, the machine replaces the manual meter reading, and the query range is arbitrarily specified, so that the data is no longer lost.

4. Carefully select materials and strictly select each circuit component, which greatly improves the stability of the circuit during long-term operation.

5. The new choke inductance of the power board can effectively reduce the influence of electromagnetic interference, and the data is more stable.

6. The design of the whole machine is waterproof and dustproof, and the back cover of the connection terminal is added to extend the service life in harsh environments.

7. Panel/wall/pipe installation, three options are available to meet various industrial site installation requirements.
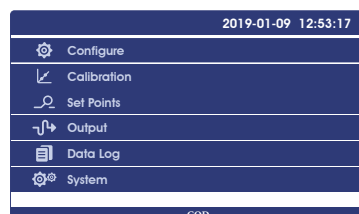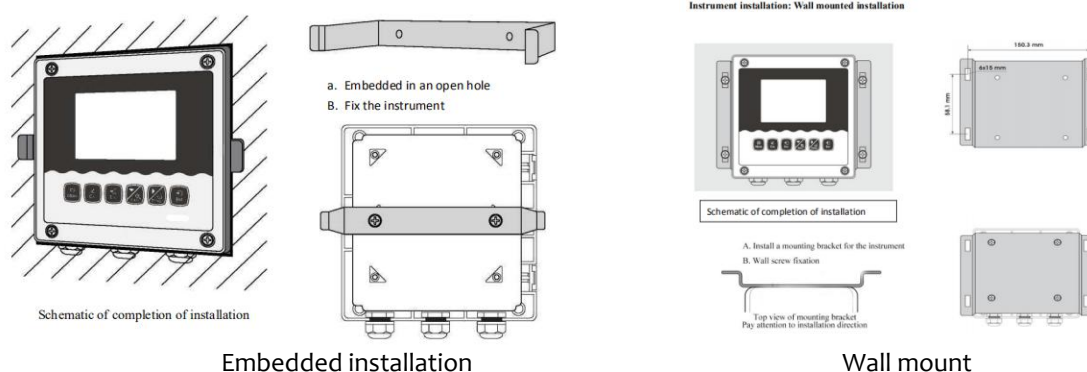
Measurement mode

Calibration mode
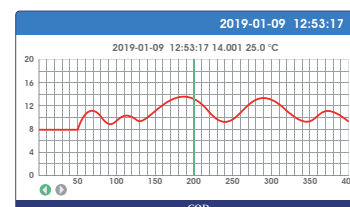
Trend chart

Setting mode

Electrical connections

Electrical connection The connection between the instrument and the sensor: the power supply, output signal, relay alarm contact and the connection between the sensor and the instrument are all inside the instrument. The length of the lead wire for the fixed electrode is usually 5-10 meters, and the corresponding label or color on the sensor Insert the wire into the corresponding terminal inside the instrument and tighten it.

Instrument installation method

Embedded installation

Wall mount

Technical specifications

Measurement range	0~1500.00mg/L;
Measurement unit	mg/L; ppm
Resolution	0.01mg/L; 0.01ppm
Basic error	±3%F.S
Temperature	-10~150
Temperature Resolution	0.1
Temperature Basic error	±0.3
Current Output	4~20mA,20~4mA,(load resistance<750Ω)
Communication output	RS485 MODBUS RTU
Relay control contacts	5A 240VAC,5A 28VDC or 120VAC
Power supply (optional)	85~265VAC,9~36VDC,power consumption≤3W
Working conditions	No strong magnetic field interference around except the geomagnetic field.
Working temperature	-10~60
Relative humidity	≤90%
IP rate	IP65
Instrument Weight	0.8kg
Instrument Dimensions	144×144×118mm
Mounting hole dimensions	138*138mm
Installation methods	Panel,Wall mounted,pipeline

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Name	Parameter
Interface	Support RS-485, MODBUS protocols
COD Range	0 to 1500mg/L maximum, equiv.KHP
COD Accuracy	<5% equiv.KHP
COD Resolution	0.01mg/L equiv.KHP
TOC Range	0 to 600mg/L equiv.KHP
TOC Accuracy	<5% equiv.KHP
TOC Resolution	0.1mg/L equiv.KHP
Tur Range	0-500 NTU
Tur Accuracy	＜3% or 0.2NTU
Tur Resolution	0.1NTU
Temperature Range	+5 ~ 45℃
Housing IP Rating	IP68
Maximum pressure	1 bar
User Calibration	one or two points
Power Requirements	DC 12V +/-5%，current<50mA(without wiper)
Sensor OD	32 mm
Sensor Length	189 mm
Cable Length	10m (default)