PUVCOD-600 Spectrometer Organic OnLine Analyzer

Measurement Principle



Based on the UV absorption reaction by organic matter, the PUVCOD-600 Spectromete Organic On-Line Analyzer uses the 254 nm spectral absorption coefficient SAC254 to measure the content of soluble organic compound in the water, and it can be converted to COD or BOD values under certain conditions. This method allows continuous monitoring without any reagents.

Features

- Direct-immersion probe measurement without taking sampling and pretreatment;
- No chemical reagents, no secondary pollution;
- Short response time for continuous measurement
- LED light source, small size, low power consumption, easy to integrate on-site
- The sensor has an automatic cleaning function to reduce maintenance time.
- Sensor power supply positive and negative reverse connection protection
- Sensor RS485 A/B terminal is connected to the power supply protection
- With time display, data storage and historical data viewing function;
- Optional data wireless transmission module.

Application

- Continuous monitoring of organic load during sewage treatment, online real-time monitoring of influent and effluent water quality of wastewater treatment plants.
- Continuous on-line monitoring of surface water, industrial effluent, and fishery wastewater.

Technical Specifications

Measuring Range	COD (using KHP calibration)：0~500mg/l COD （5mm）,0-100mg/L COD（25mm）；BOD (using KHP calibration)：0~375mg/L BOD（5mm）,0~75mg/L BOD（25mm）；TOC(using KHP calibration)：0~200mg/L TOC（5mm）,0~40mg/L TOC（25mm） Turbidity：10-800 NTU（5mm）,10-300NTU（25mm）
Accuracy	COD/BOD/TOC (using KHP calibration)：±5% or ±1mg/L, whichever is greater；Turbidity：±10%
Repeatability	5% (using KHP calibration)
resolution	COD/BOD/TOC：0.01 mg/l;Turbidity：0.01NTU
Pressure Range	≤0.1Mpa
Sensor material	Body:SUS316L（fresh water）,Titanium alloy（Ocean marine）,Cable：PUR
Power Supply	AC：85-500VAC (50/60HZ);DC：9-36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage/Measuring temperature	-15-50℃/0-45℃（Non-freezing）
Dimensions	Sensor：Diam 34mm*Length 217mm ;Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：0.8KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP66/ NEMA4X
Cable length	Standard:10m,the maximum may be extended to 100m

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