PUVCOD-900 Spectrometer Organic OnLine Analyzer

Measurement Principle



Based on the UV absorption reaction by organic matter, the PUVCOD-900 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.
- The sensor has an automatic cleaning function to reduce maintenance time.

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)：0-2000mg/l COD (2mm) 0-1000mg/l COD (5mm); 0~90mg/l COD (50mm) BOD (using KHP calibration)：0-1500mg/l BOD (2mm) 0-750mg/l BOD (5mm); 0-60mg/l BOD (50mm) TOC(using KHP calibration)：0-800mg/l TOC(2mm) 0-400mg/l TOC(5mm); 0-35mg/l TOC (50mm)
Accuracy	±5%（KHP Standard solution）
Repeatability	±2%（KHP Standard solution）
Resolution	0.01mg/l
Pressure Range	≤0.4Mpa
Sensor material	Body：SUS316L（fresh water），Titanium alloy（Ocean marine）； Cable：PUR
Power Supply	AC：85-500VAC ；DC：9-36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage temperature	-15-50℃
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor：Diam 69mm*Length 365mm，Transmitter： 145*125*162mm(L*W*H)
Weight	Sensor：3.2KG；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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