UV254 Sensor

innoSens 920

The innoSens 920 UV254 sensor is based on the principle of ultraviolet absorption. By measuring the absorption of UV light at 254 nm wavelength by organic substances, it accurately determines the concentration of dissolved organic matter in water. The sensor requires no reagents, produces no pollution, and is more economical and environmentally friendly. It integrates an 850 nm near-infrared reference light to automatically compensate for interference from suspended solids. Equipped with an automatic cleaning wiper, it maintains excellent stability even after long-term use.

Compatible Controllers

Flumsys 10TC Controller
Flumsys 10MT Controller



Product Features

- No reagents required, pollution-free
- Measures COD, TOC, BOD, and temperature
- Automatic compensation for suspended solids interference
- Self-cleaning wiper prevents biofouling, extending maintenance intervals

Installation Methods

- Vertical cable-hung mounting – suitable for environments with no rapid flow and low debris content.
- Horizontal cable-hung mounting – suitable for water bodies with high debris and turbidity.
- Flow-through installation – requires an optional acrylic flow cell.

Technical parameter

Product Model:	innoSens 920
COD Measurement Range:	0–500 mg/L equiv. KHP 0–1500 mg/L equiv. KHP
COD Resolution:	0.01 mg/L
COD Accuracy:	±5%
TOC Range:	0–180 mg/L 0–500 mg/L
TOC Resolution:	0.01 mg/L
Temperature Range:	0~50°C (non-freezing)
Protection Rating:	IP68
Maximum Pressure Resistance:	3 bar
Automatic Cleaning:	Timed wiper cleaning
User Calibration:	Supports multi-point calibration
Power Supply Requirements:	DC 12–24V, ≥1A
Sensor Interface:	RS-485, Modbus protocol
Sensor Dimensions:	Φ38mm × 185mm
Cable Length:	10 meters (default), customizable
Housing Material:	316L stainless steel (titanium alloy customizable)

Order Guide

Order No.	Description
35-0920-01	innoSens 920-L06 UV254 sensor, 0–500 mg/L COD range
35-0920-02	innoSens 920-L10 UV254 sensor, 0–1500 mg/L COD range