

Model No : V.water - 8001

V.water - 8001 UVI Water Quality Analyzer

- *capable for real-time absorption spectrum of water pollutants ranging from 200nm to 800nm**
- *Requires no reagents, so it can save operating costs**
- *Free from the interference of chloride ion**
- *adopts full-spectrum measurement and chemometric algorithm analysis**

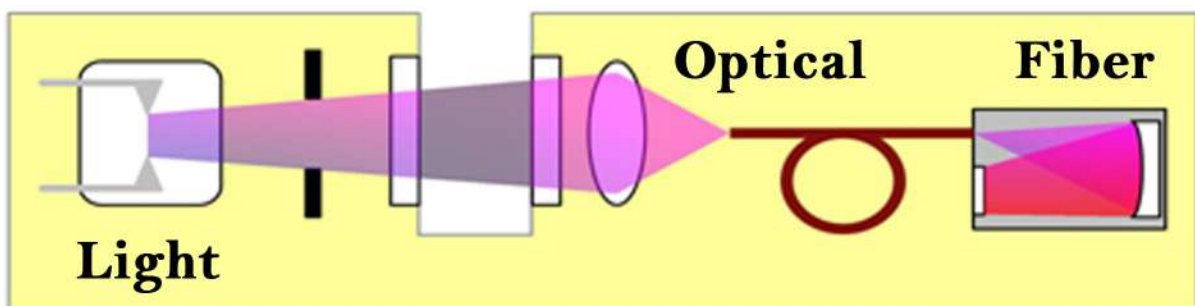
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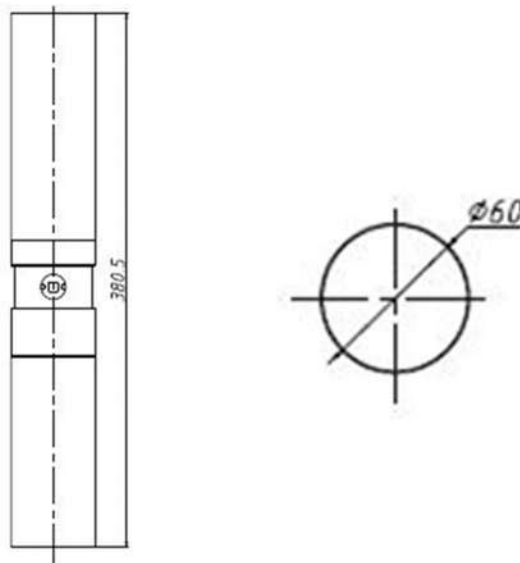
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Basic Principle

This instrument adopts the pulse xenon lamp as light source and the ultraviolet optical fiber spectrometer as detector; is capable for real-time gathering of absorption spectrum of water pollutants ranging from 200nm to 800nm and real-time analysis of the content of water pollutants by means of chemometric algorithm technology. Optical path as shown below:



Instrument Dimension Drawing: Measuring Probe:



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Product Features

- 1. It requires no reagents, so it can save operating costs and will cause no secondary pollution.**
- 2. The response is quick (about 2 seconds). It is suitable for the occasion where high real-time performance is required, such as industrial process analysis.**
- 3. Free from the interference of chloride ion.**
- 4. It adopts full-spectrum measurement and chemometric algorithm analysis, which in comparison with the simple dual wavelength background subtraction technology, can measure more parameters and is less likely to be influenced by the compositional change of waste water.**
- 5. All components are independently researched and developed.**
- 6. It adopts pulse blowing method to clean the pollutants on the two window surfaces.**

The instrument probe in the water measures organics in the water by means of xenon lamp. The calculation of the spectrum obtained after each measurement will produce a measured value, which will be transmitted to the control box and displayed

- 7 Optical Fiber on the main interface. One measurement only takes several dozens of seconds. Meanwhile, in the interval of measurement, the instrument will be automatically cleaned to prevent contaminants from being deposited on the surface of the lens.**

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Technical Specifications

Measuring Parameters	COD, BOD, UV254, Nitrate, TOC, DOC, Turbidity, TSS,Color, etc.....
Measuring Rang	As Customer required
Method	Uv/visible differential optical absorption spectroscopy, wavelength range 200-800nm
Power	230 V AC, 30w
Linearity	2%F.S
Zero Drift	<1%F.S.
Range(COD)	0~50~200mg/l, greater range can be customized
Interval	The shortest 60 seconds, the cycle can be set
Probes Depth	<10m
Optical Path	Can be adjusted according to the site condition
Working Temp	5C~45C
Enclosure Rating	Ip65(secondary instrument)
Auto - cleaning	Can be set
Interface	RS232/RS485(Baud rate can be set), 2x4-20ma output
Probe Size	60*380.5mm
Probe Weight	5kg

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Interface digital	Ethernet (TCP/IP), RS-232 or RS-485 (Modbus RTU)
Power supply	12-24 VDC ($\pm 10\%$)
Output data	
Power consumption	< 8 W
Environmental conditions	
Sample temperature	+2...+40 °C
Ambient temperature	+2...+40 °C
Inflow velocity	0.1-10 m/s
Performance characteristics	
Maintenance effort	Typically < 0.5 h/month
Calibration/maintenance interval	24 months
System compatibility	Modbus RTU
Guarantee	1 year (EU: 2 years)
Installation	
Max. pressure with SubConn	30 bar
Max. pressure with fixed cable	3 bar
Max. pressure in flow cell	1 bar, 2-4 L/min
Protection type	IP68
Structural design	
Housing material	Stainless steel (1.4571/1.4404) or titanium (3.7035)
Weight stainless steel	~ 3 kg (with 10 mm path)
Weight titanium	~ 2 kg (with 10 mm path)

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Installation Requirements

The analyzer includes two parts: the control box and the probe. The control box is installed in the analysis cabin and the probe is submerged in the water and fixed by means of mounting bracket; the two parts are connected via cable. The control box provides power supply to the probe and at the same time receives the measurement value from the probe and displays them on the interface.

