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VASTHI
INSTRUMENTS

Water Analyzer



VEMS
4000

- Capable for real - time absorption spectrum of water pollutants ranging from 200nm to 8000nm.
- Requires no reagents, so it can save operating cost.
- Free from interference of chloride ion.
- Adopts full-spectrum measurement and chemometrical algorithm analysis.

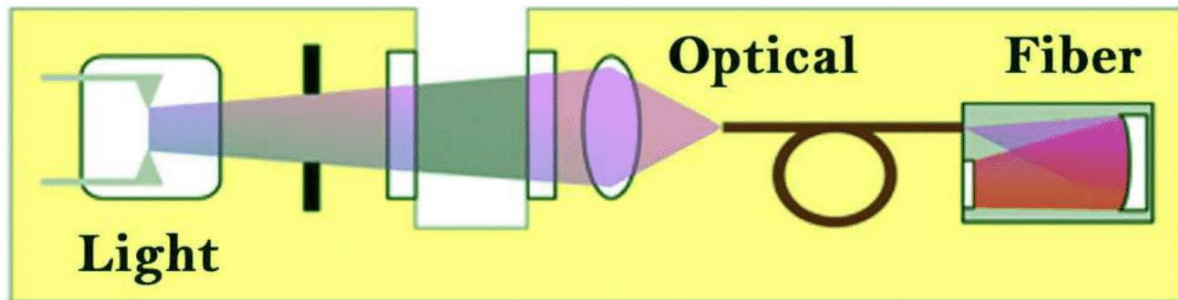
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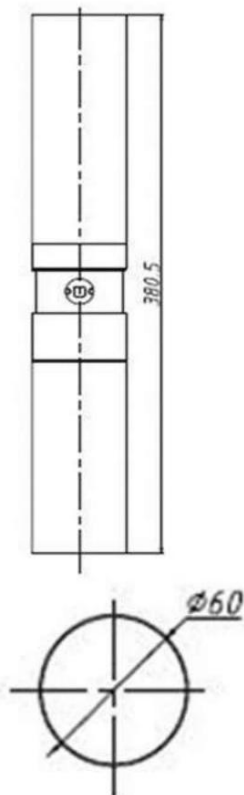
Plot No. 21 & 22, Block No. 24,
Phase - 4, AutoNagar,
Guntur 522 001, AP

Basic Principle

This instrument adopts the pulse xenon lamp as light source and the ultraviolet Vis Spectrophotometry 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



Technical Specifications

Measuring Parameters	COD, BOD, UV254, Nirate, TOC, DOC, Turbidity, TSS, etc....
Measuring Range	As Customer required
Method	Uv – vis Spectrophotometry
Power	230 V AC, 30w
Linearity	2%F.S
Zero Drift	<1%F.S
Range(COD)	o~so~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	sc~4sc
Enclosure Rating	Ip65(secondary instrument)
Auto- cleaning	can be set
Interface	RS232/RS485(Baud rate can be set), 2X4 – 20 m a output
Probe Size	60*380.Smm
Probe Weight	5kg
Interface Digital	Ethernet {TCP/IP}, RS-232 or RS-485 {Modbus RTU}
Power supply	12-24 VDC {± 10%}
Output Data	
Power consumption	< 8W
Environmental conditions	
Sample temperature	+2...+40 °(
Ambient temperature	+2...+40 °(
Inflow velocity	0.1-10 m/s
Performance characteristics	
Maintenance effort	Typically< 0.5 h/month
Calibration	24 months
System compatibility	Modbus RTU
Guarantee	1 year

Technical Specifications

Installation

Max.Pressure with Subconn	30 bar
Max. pressure with fixed cable	3 bar
Max. pressue 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 stain less steel	~ 3 kg (with 10 mm path)
Weight titanium	~ 2 kg (with 10 mm path)

Technical Specifications

VASTHI continuously to developing water analyzers with different technologies.

We can integrate the other parameters are also in the same analyzer.

Those are PH, ORP, Conductivity, Salinity, Ammonium, Nitrate,..etc.

For More information, Please contact VASTHI.



VASTHI INSTRUMENTS

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