



# Online Water Analyzer

# Table of Content

## Page No

Company Profile.....	1
Product Overview.....	2
Product Descriptions.....	2
Parameters to be measured.....	3
Features.....	3
Technology Used.....	4
Technical Specifications.....	5
Areas of Application.....	6
Certification.....	6

# Company Profile

## About us

ITECHFLOW Pvt. Ltd. is a pioneer in providing break through technological solutions centralized to wards protecting the environment and promoting a sustainable tomorrow. We develop environmental monitoring instruments using sensor-driven technologies for connected devices with an automated approach to data collections and monitoring solutions. We are known for developing customized, turnkey solutions and have the dynamics of a young and passionate team with great problem solving skills. Itechflow has since managed to expand across parallels and carved out a niche as a leading manufacturer of environmental monitoring instruments and provides meticulously engineered and sustainable solutions that help protect and improve environment quality, conserve resources, promote waste management, and encourage efficient use of energy and support activities that promote the protection of human health and a sustainable global environment.

## Vision

To make a better world with better beings, perpetuate the balance between them  
Make the planet Earth an incredible one, worth being stared in wonder from the other galaxies.

## Core Values

As more and more customers had air pollution monitoring instruments and analytical lab instruments installed, our reputation grew for quality workmanship and finishing This led to the development of a new service offering We have a team of experienced service engineer who have expertise in the field for many years in servicing of air pollution monitoring instruments, we provide all kind of analytical lab instruments servicing.



*Established in 2015, Itechflow Pvt. Ltd. has an enviable reputation for manufacturing quality environmental instruments.*

## 01 Product Overview

This is a fully integrated, temperature controlled Water quality Analyzer that delivers 'near reference' levels of performance in real-time for multiple characteristics of effluent/ water sample and environmental parameters.

Online monitoring of effluents is mandatory for specific category of industries in India. However choosing right technology is important, as monitoring is not a short term job.

The equipment needs to be rugged, reliable (result comparable to lab data), economical, well supported by manufacturer and local distributor with inventory of spares and skilled manpower. The system shouldn't require recurring cost in reinvestment for replacements at a later stage. Also, the instrument needs to comply Local and International Standards.

## 02 Product Descriptions

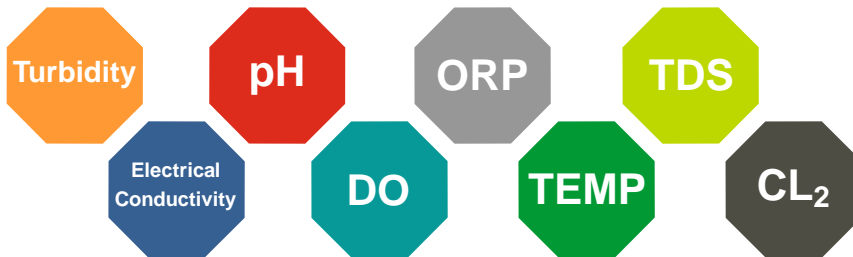
S.NO	TYPE	Details
01	Technology	UV-Visible Spectroscopy
02	Sample Flow	Recommended: 0-5 l/min
03	Parameters & Range	Refer in table below
04	Application	Pharmaceutical, Chemicals, Petrochemicals, Refineries, Industries etc



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### 03 Parameters to be measured

▶ Continuously measure the concentration of following parameters:



### 04 Features

- ▶ Auto zero done on cleaning solution  
Allows very high level of suspended solid without clogging for all the optical measurements making it suitable for industrial application
- ▶ External probes can be added for physiochemical parameters like pH, ORP, chlorine, conductivity and turbidity.
- ▶ Its automatic cleaning system and its extremely long life time lamp, the maintenance is roughly limited to the periodic refill of their-expensive cleaning solution




**Large Storage Capacity**



**Fully Automated System**



**GPRS Modem Communications**



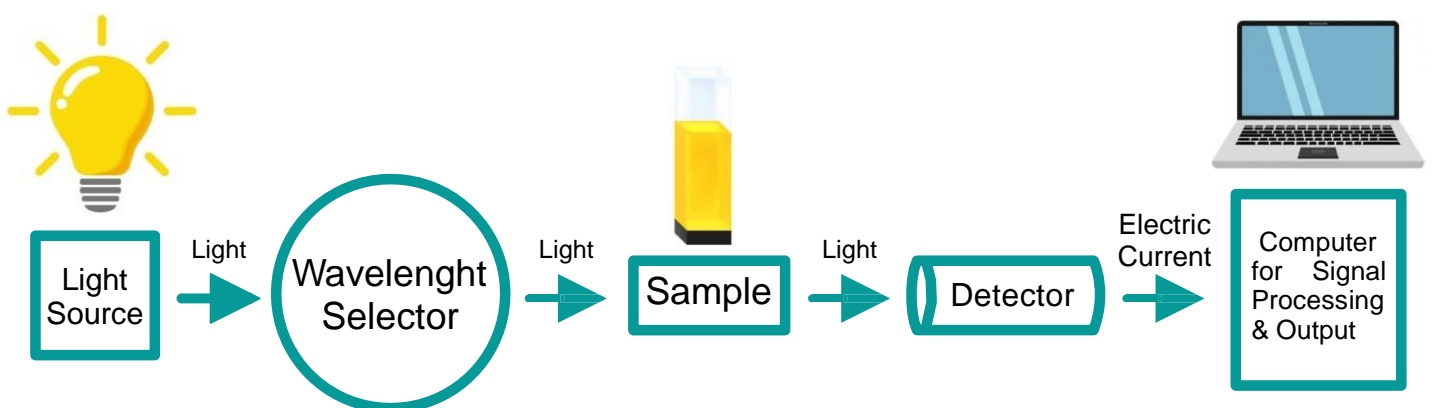
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## 05 Technology used

Monitoring of waste water parameters in a Common Effluent Treatment Plant is a challenging task due to the in take of wastes, having diverse properties & composition, from various industries. Hence it is difficult to set boundary conditions on the measurement. **UV/VIS spectroscopy** is an efficient method for continuous monitoring.

UV-Vis spectroscopy is an analytical technique that measures the amount of discrete wave lengths of UV or visible light that are absorbed by or transmitted through a sample in comparison to a reference or blank sample. This property is influenced by the sample composition, potentially providing information on what is in the sample and at what concentration. Since this spectroscopy technique relies on the use of light, let's first consider the properties of light.

Whilst there are many variations on the UV Vis spectrophotometer, to gain a better understanding of how an UV-Visible spectrophotometer works, let us consider the main components, depicted in Figure





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## 06 Technical Specifications

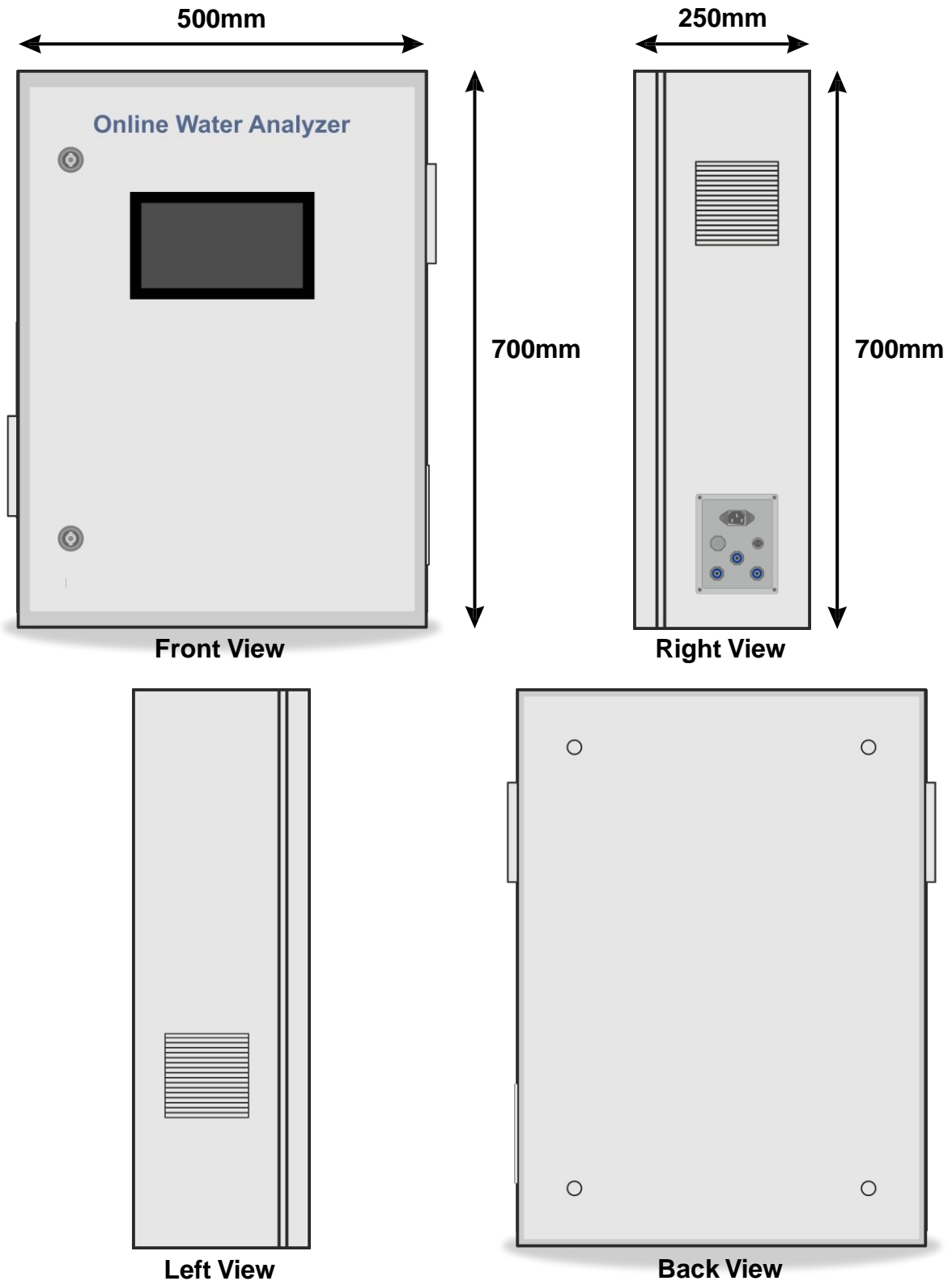
Sensor	Details
PH Sensor	<p><b>Range:</b> 0-14 pH,  <b>Resolution:</b> 0.01pH  <b>Precision:</b> 0.5 pH, <b>Response time:</b> =15s  <b>Operating temperature:</b> -20degree C to 80 degree C  <b>Operating pressure:</b> &lt;+10%</p>
OPR Sensor	<p><b>Range:</b> -1000 - +1000 mv,  <b>Resolution:</b> 0.1mv,  <b>Precision:</b> 3%, <b>Response time:</b> =15s  <b>Operating temperature:</b> -10 degree C to 80 degree C,  <b>Operating pressure:</b> &lt;+10%</p>
Turbidity Sensor	<p><b>Range:</b> 0-1000NTU (default) 0-10000 NTU, 0-4000NTU  <b>Resolution:</b> 1NTU, 0.1?  <b>Precision:</b> - 3%, <b>Responsetime:</b> =1s,  <b>Operating temperature:</b> 0degree to 50 degree C  <b>Operating pressure:</b> &lt;+ 10%</p>
Electrical Conductivity sensor	<p><b>Range:</b> 0-200 us/cm –Pure water 0-200 us/cm- Drink water  0-2000 us/cm- Tap water, river water  0-20000 us/cm- Sewage detection  <b>Resolution:</b> 0.001 us/cm- Pure water  0.001 us/cm- Drink water  0.01 us/cm- Tap water, river water  0.1 us/cm- Sewage detection</p>
Chlorine ions Sensor	<p><b>Range:</b> 0 - 1000 ppm,  <b>Resolution:</b> 0.1 ppm  <b>Precision:</b> 5% of reading or 10 ppm, <b>Response time:</b> =20s,  <b>Operating temperature:</b> -10 degree C to 80 degree C,  <b>Operating pressure:</b> &lt;+ 10%</p>
Dissolved Oxygen (DO)	<p>DO Content Range : 0-20 (mg/L )  DO % saturation range: 0-200 %  <b>Precision:</b> - 3%, <b>Responsetime:</b> =15s,</p>
Total Dissolved Solids (TDS)	<p><b>Range:</b> 0-20 g/L  <b>Precision:</b> - 3%, <b>Responsetime:</b> =15s,</p>
Temperature	<p><b>Range:</b> -10 deg C to 150 deg C  Lower Detention: 0 deg C  <b>Precision:</b> - 3%, <b>Responsetime:</b> =15s</p>
BOD	<p><b>Range:</b> 0-1000 mg/L  <b>Resolution:</b> 0.1 mg/L  <b>Response time:</b> =15s,</p>
COD	<p><b>Range:</b> 0-1000 mg/L  <b>Resolution:</b> 0.1 mg/L  <b>Response time:</b> =15s,</p>
TSS	<p><b>Range:</b> 0-1000 mg/L  <b>Resolution:</b> 0.1 mg/L  <b>Response time:</b> =15s,</p>





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## 07 Machine Drawing and Unit Dimensions







# Lafuma

An integrated metering solution

## CONTACT US



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