

# FL-WQM

# Water Quality Monitoring System



**FountLab**





Optimum running of **STP/ETP Operations** requires monitoring of critical parameters of treated water before discharging. Live and continuous data monitoring of these parameters can indicate the running of overall STP/ETP efficiency and the concerned team can take immediate corrective actions depending on the data.



# Four main parameters of STP/ETP\* Water Quality



## Potential of Hydrogen (pH)

- pH describes the hydrogen potential of a substance or, in other words, the concentration of hydrogen ions in a solution.
- pH levels must be controlled to ensure optimal conditions to achieve the required chemical or microbial reactions and ensure that the process runs efficiently.



## Biochemical Oxygen Demand (BOD)

- BOD is the measurement of the amount of dissolved oxygen that is used by aerobic microorganisms to decompose the organic matter in water.
- A typical river with good water quality will have almost 100% saturation of oxygen(8-10 mg/l), hence ample oxygen for microbial activity for microorganisms.



## Chemical Oxygen Demand (COD)

- COD is similar to BOD i.e. both are used to calculate oxygen demand of a water sample typically wastewater but the difference is COD measures everything that can be oxidized and BOD measures only oxygen demand by organisms.



## Total Suspended Solids (TSS)

- Suspended solids (SS) are the materials in the transient phase in wastewater treatment plants.
- TSS is one of the parameters commonly used to determine the quality of a wastewater because it represents a danger to the receiving environment.
- This is measured in mg/l

**\*Note - ETP online systems can be designed as per industry specific requirements and related pollution control board guidelines.**



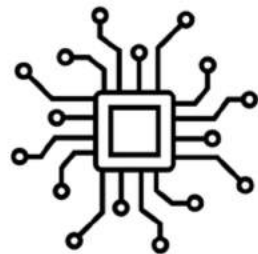
Presenting

# FL-WQM (Water Quality Monitoring) System

A Single Point Solution to monitor your STP/ETP Water Quality With 24\*7 Real-time Data & Multiple Sensors using Cloud Services



24x7 real-time monitoring of key parameters.



Temperature, pH, COD, BOD, and TSS



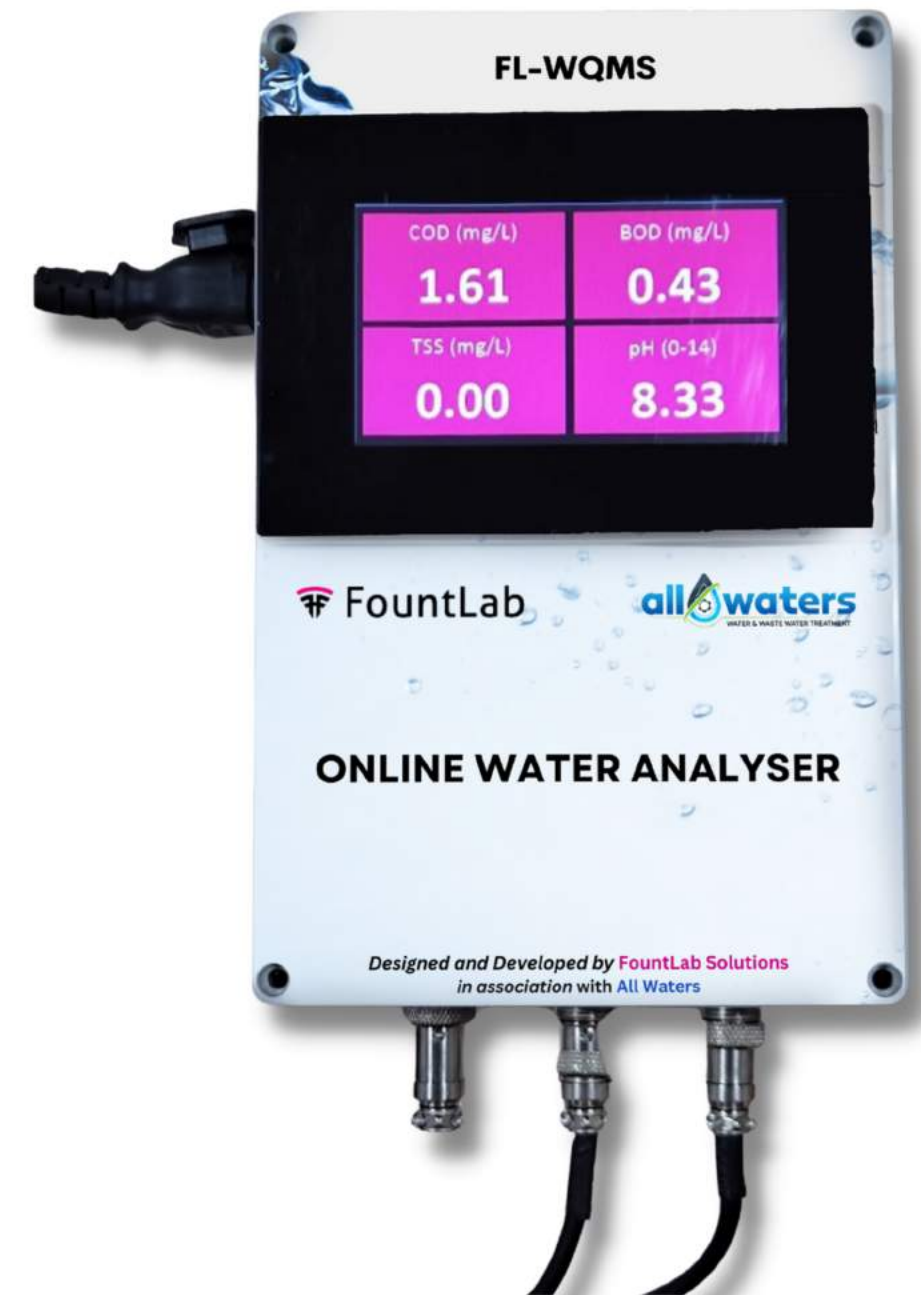
Smart access to remote data with an interactive dashboard.



Cost-effective and accurate data is provided for further analysis.



Multiple connectivity options like Ethernet, GSM, Wi-Fi, RS 485 etc.

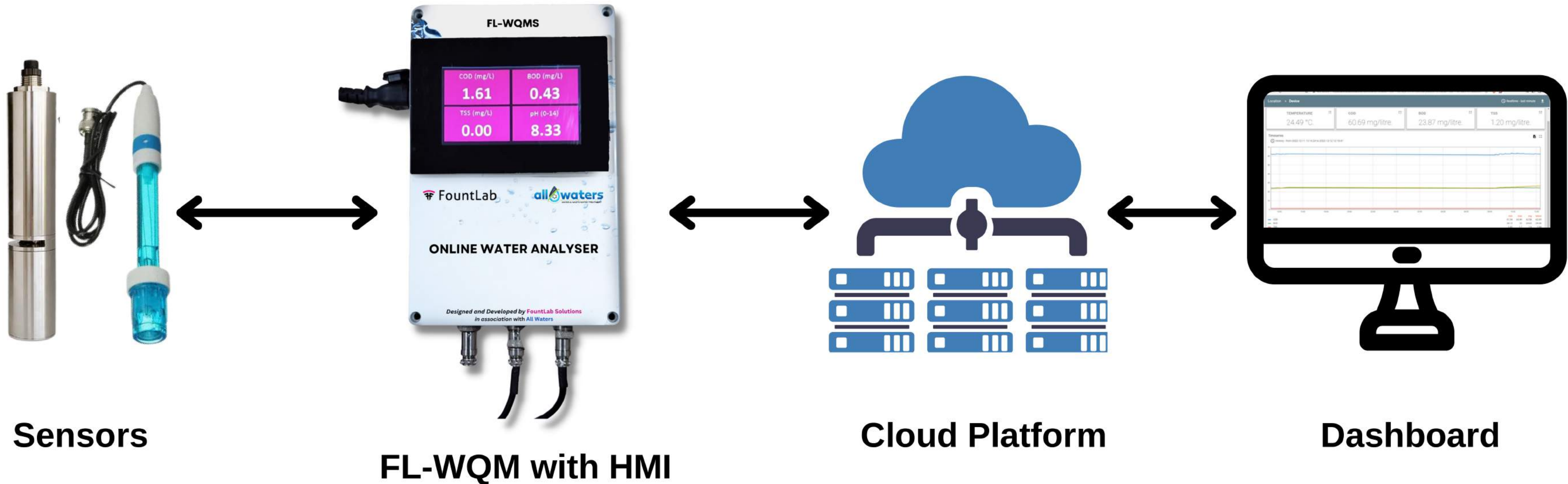


\*ALL PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY. ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENT.



# Typical Implementation

The sensors and components are designed to effectively manage the safety, health and productivity of every system and thus the organization.





# Sensors Technical Specifications

Sr.No.	Parameter	Range	Resolution	Calibrated	Measurement type	Accuracy
1	pH	0-14	0.01	Factory Calibrated	Inline	0.01
2	TSS	0-600mg/L	0.01mg/L		Inline	0.1mg/L
3	BOD	0-300mg/L	0.01mg/L		Inline	0.1mg/L
4	COD	0-500mg/L	0.01mg/L		Inline	0.1mg/L
5	Temperature	0-80 deg C	0.1deg C		Inline	0.5 deg C



**Best-in-class  
service and  
support**



**Fully customizable  
device configuration  
and services**



**Hassel Free  
After Sales  
Services**

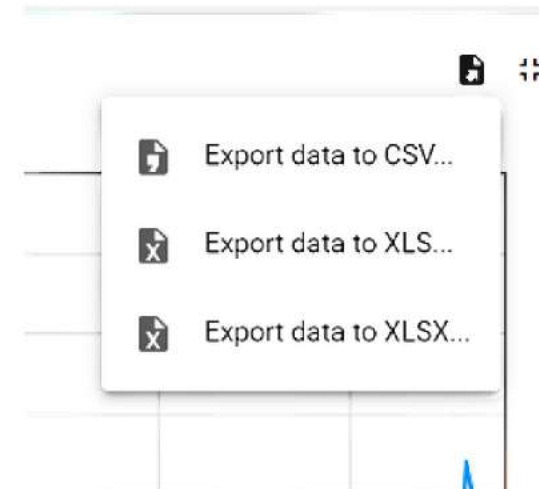
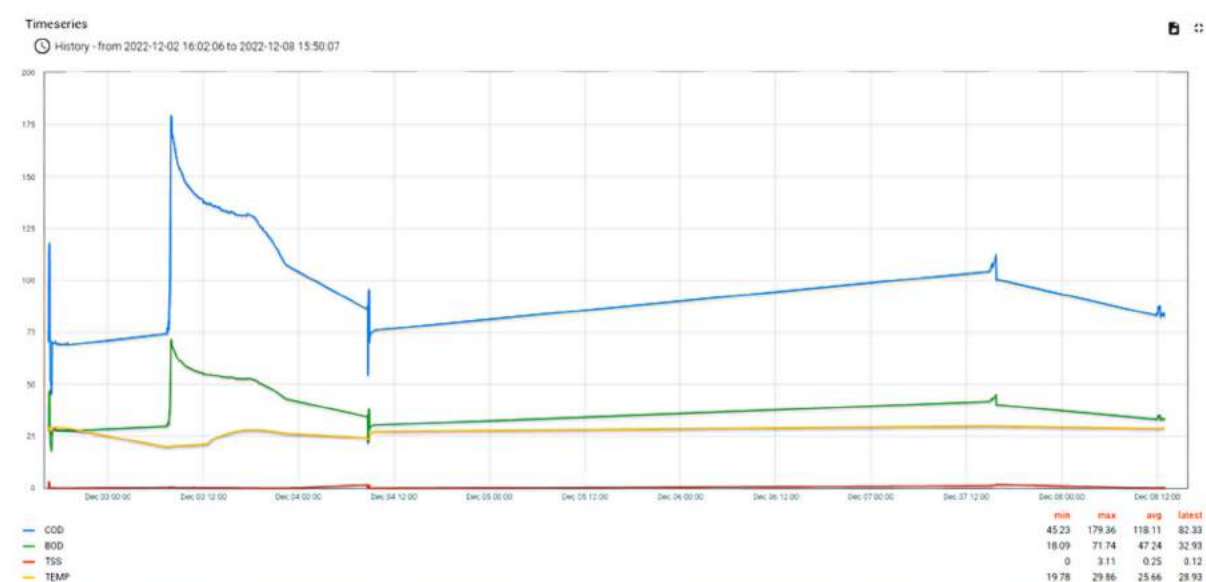


**Secure and  
reliable cloud  
platform**

**\*Note - ETP online systems can be designed as per industry specific requirements and related pollution control board guidelines.**



# Cloud Dashboard



Use our **simple and easy** to read dashboard to monitor and manage your devices in one portal, and stay fully updated with your FL-WQM even on the go.



Monitor and manage multiple devices



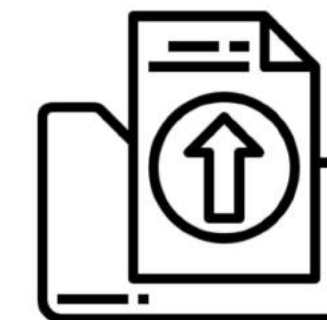
View real-time data and trends



Identify and Manage Hotspots



Fully customisable parameter alerts



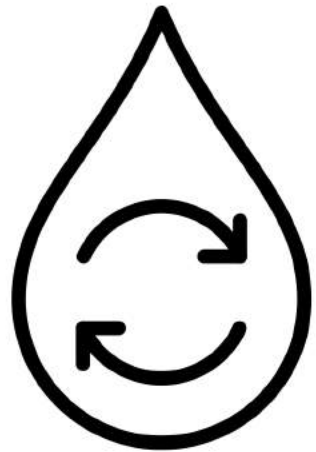
Export data in multiple formats



Control Sensor Visibility on dashboard

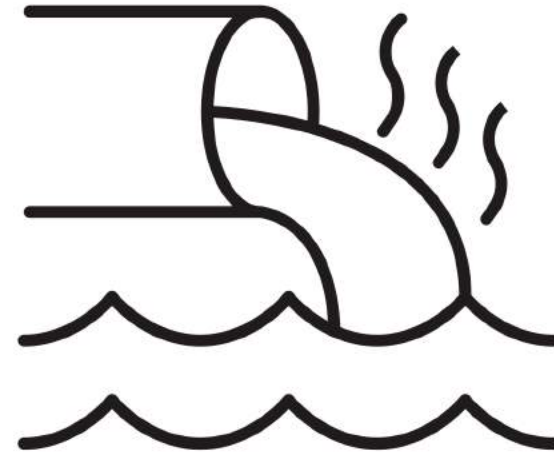


## Fountlab's intelligent, affordable smart solutions assists Sewage and Effluent Treatment Plants to increase operational efficiency and provide optimum output.



### IMPROVED WATER QUALITY

Treated sewage water can be used for irrigation, watering lawns and gardens, and other non-potable purposes.



### REDUCED POLLUTION

Proper treatment and monitoring of sewage water can help to remove contaminants and prevent them from entering natural water bodies, such as rivers, lakes, and oceans.



### PUBLIC HEALTH

Proper sewage treatment can help to reduce the risk of waterborne diseases, such as cholera, typhoid, and hepatitis A.



### ENVIRONMENTAL PROTECTION

Proper sewage treatment and monitoring can help to protect the environment from the negative impacts of untreated sewage.



# Ready to monitor your **STP/ETP** **Water Quality** with us?

## Book a demo today!

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Get in touch

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*Designed and Developed by **FountLab Solutions**  
in association with **All Waters***