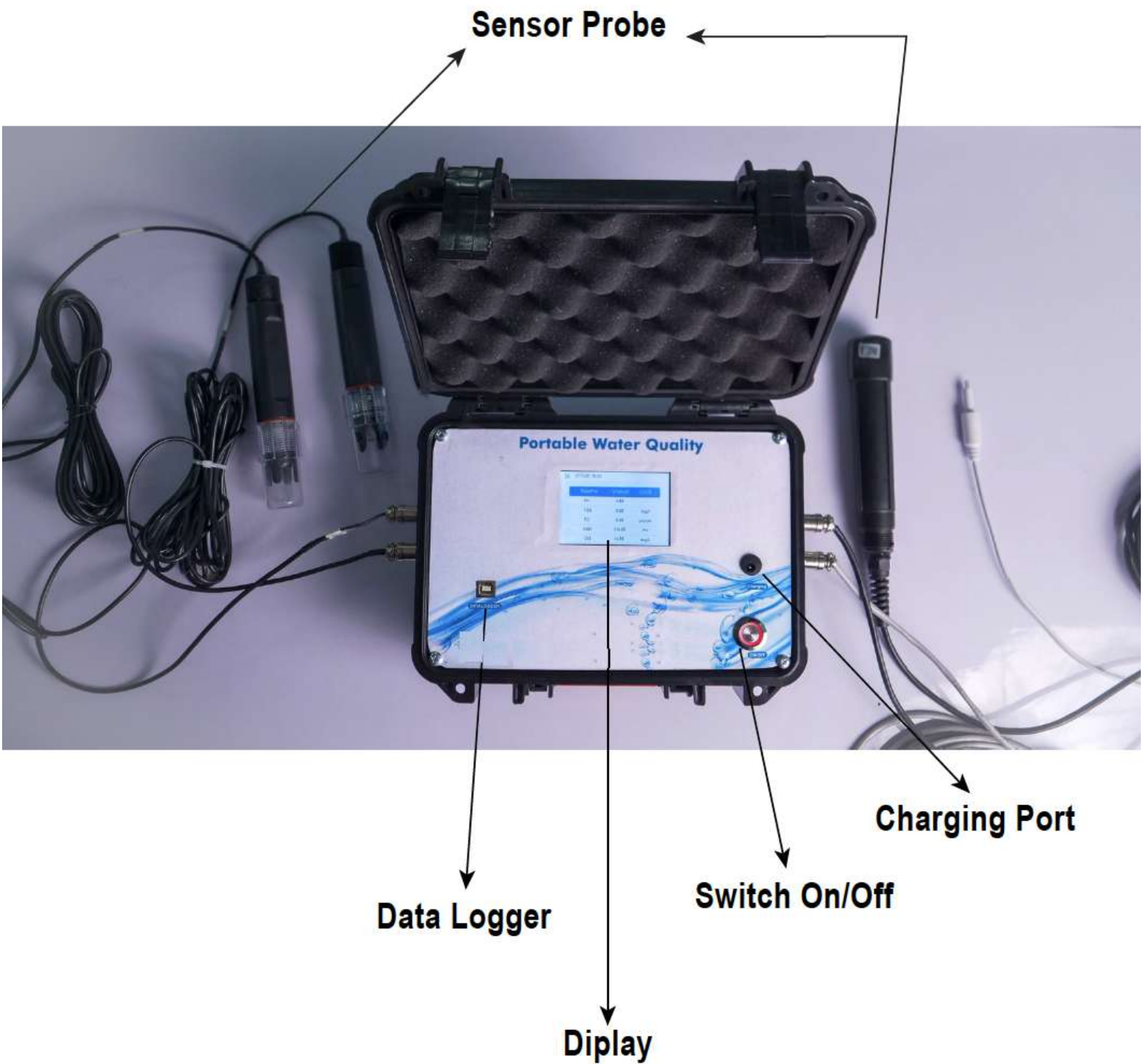


# PORTABLE WATER ANALYSER



ALPHA ENGINEERING & SYSTEMS



# Catalogue



## Parameters to be measured

◆ Continuously measure the concentration of following parameters:



◆ Optional Parameters and more available on request



Note: Parameters can be customize as per client requirement



# Product Features



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## PATENTED TECHNOLOGY

Works on innovative e-breathing technology for higher data accuracy



## TAMPER PROOF

Comes with a security system to avoid tampering / malfunction / sabotage.



## OVER-THE-AIR UPDATE

Automatically upgradeable from a central server without any onsite visit.



## INTERNAL STORAGE

Internal data storage capacity of upto 8 GB or 90 days.



## REAL-TIME DATA

Continuous monitoring and real-time data transfer at configurable intervals



## Battery Backup

Compatible to charge internal battery using solar power.



## RETRO FIT DESIGN

Plug and play design for ease of implementation.



## COMPACT

Light-weight and compact system that can be installed at 12-15 feet (4-5 m) height.



## NETWORK AGNOSTIC

Supports a wide range of connectivity options like GSM / GPRS / WiFi / LoRa / NB-IoT / Ethernet / Modbus.



## Weather Resistant

IP66 Grade (certified) enclosure for endurance against harsh weather.



## ON-DEVICE CALIBRATION

On-site device calibration capability using on-device calibration software.



## IDENTITY AND CONFIGURATION

Each equipment carries its unique identity with geo-tagging through wireless configuration.

# Key Benefits

## CLOUD PLATFORM

Visualise and analyse data in the cloud. Easy data integration via APIs.

## EASY TO INSTALL

Effortless installation with versatile mounting arrangements.

## SEAMLESS CONNECTIVITY

A wide range of options of wired and wireless connectivity.

## MULTI-PARAMETER

Compatible with a wide range of parameters including PM, gases and meteorological parameters.

## ACCURATE DATA

Gives accurate readings in real-time to detect concentrations in ambient air.

## ROBUST AND RUGGED

Durable enclosure to sustain extreme climatic conditions.

# Area of Application



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- Laboratory
- Industrial Wastewater
- Semiconductor Industry
- Refinery Water
- Power Station
- Process Water
- Cooling Tower
- Aquaculture

## 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 Automatic  
System**



**GPRS Modem  
Communications**



# Technical Specifications



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Sensor	Sensor Specification
Dissolve Oxygen	DO Content Range : 0-20 (mg/L ) DO % saturation range: 0-200 % Precision: - 3%, Responsetime: =15s,
ORP	Range:-1000 ~+1000mv Resolution: 0.01mv(Default)
Total Dissolved Solids (TDS)	Range: 0-1000mg/L Measurement accuracy: 3%F.S Responsetime: =15s,
Electrical Conductivity (EC)	Range: 0-20us/cm, 0-200us/cm, - 0-2000us/cm, 0- 20000us/cm Resolution:0.001us/cm 0.001us/cm, 0.01us/cm 0.1us/cm
pH	Range: 0 - 14 pH Resolution: 0.01Ph Accuracy: ±0.1Ph
Turbidity sensor	Range: 0-1000NTU (default) 0-10000 NTU, 0-4000NTU Resolution: 1NTU, 0.1? Precision: - 3%, Responsetime: =1s, Operating temperature: 0degreeto 50 degree C Operating pressure:<+ 10%
Chlorine ions	Range: 0 - 1000 ppm, Resolution: 0.1 ppm Precision:5% of reading or 10 ppm, Response time: =20s
Temperature	Range: -10 deg C to 150 deg C Lower Detention: 0 deg C Precision: - 3%, Responsetime: =15s
BOD	Range: 0-1000 mg/L Resolution: 0.1 mg/L Response time: =15s,
COD	Range: 0-1000 mg/L Resolution: 0.1 mg/L Response time: =15s,
TSS	Range: 0-1000 mg/L Resolution: 0.1 mg/L Response time: =15s,
Oil and Water	Range: 0-50ppm or 0-5000ppb (default, option within the range Resolution: 0.01ppm(oil in water),0.1 C (temperature) Response time:<15s (25 C)

# Machine Drawing & Dimension



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Maxi. Box  
View



Mini. Box  
View