

AQUASENTRY PRO

BT-AQUA-09AG



The banner features a background image of a person in a white lab coat holding a glass vial. In the top left, there is a logo consisting of a water drop, a magnifying glass, and a checkmark. The text 'AquaSentry Pro' is in a large, bold, white font, with 'Water Quality Telemetry System' below it in a slightly smaller, bold, white font. Underneath that is the tagline 'Monitoring Excellence, Water Quality Assurance' in a smaller, white font. At the bottom left, there is a dashed white box containing two circular icons: one with a speech bubble and a checkmark, and another with a telephone handset. Below these icons is the word 'Alerts'. At the bottom right, there is another dashed white box containing the 'WiFi' logo, the '4G' logo, and the word 'Communication' below them.

AquaSentry Pro

Water Quality Telemetry System

Monitoring Excellence, Water Quality Assurance



Product Overview:

The Water Quality Telemetry System is an advanced monitoring solution designed for real-time tracking and analysis of water quality parameters. This comprehensive system combines cutting-edge sensor technology with versatile communication capabilities to provide actionable insights into water quality.

Key Features:

1. Wireless water Quality monitoring for remote water quality tracking.
2. Multi-channel data transmission via LoRaWAN, Wi-Fi, and 4G for seamless connectivity.
3. Dashboard analytics and alerts for real-time monitoring and trend analysis.
4. Comprehensive sensor suite including BOD, COD, NO₃, pH, Specific Conductivity, Temperature, TDS, Turbidity, and Total Coliform.
5. Alerts via SMS, WhatsApp, email, mobile and web notifications, and voice calls for immediate notification of critical events.

Applications

- Industrial water management
- Agricultural water monitoring
- Environmental water quality assessment
- Municipal water supply monitoring
- Research and scientific studies

Technical Specifications

- **Wireless Connectivity:**
 - LoRaWAN: Compatible with LoRaWAN networks for long-range, low-power communication.
 - Wi-Fi: Supports standard Wi-Fi protocols for local network connectivity.
 - 4G: Integrated 4G modem for high-speed cellular data transmission.
- **Sensor Parameters:**
 - BOD (Biochemical Oxygen Demand)
 - COD (Chemical Oxygen Demand)
 - NO₃ (Nitrate)
 - pH (pH level)
 - Specific Conductivity
 - Temperature
 - TDS (Total Dissolved Solids)
 - Turbidity
 - Total Coliform
- **Alerts and Notifications:**
 - Channels: SMS, WhatsApp, email, mobile and web notifications, voice calls.
 - Customizable thresholds for triggering alerts.
 - Real-time notifications for immediate action.
- **Data Storage and Analysis:**
 - Secure cloud storage for storing historical data.
 - User-friendly dashboard interface for data visualization and analysis.
 - Trend analysis tools for identifying patterns and anomalies.
- **Power Supply:**
 - Options: Battery-powered, solar-powered, or mains electricity.
 - Power-saving features for extended operation in remote locations.
- **Sensor communication:**
 - 4-20mA
 - RS-485