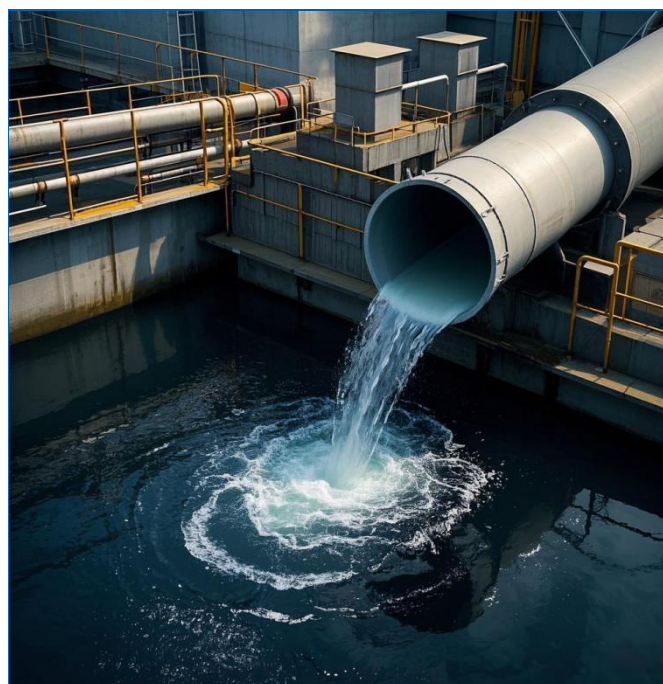




IoT Water Quality Monitoring System

产品宣传手册



西安凯兴物联科技股份有限公司

XI'AN KACISE OPTRONICS TECH CO., LTD

IoT Water Quality Monitoring System

1. Introduction

The IoT water quality monitoring system is mainly an online monitoring system for aquaculture, rivers, lakes and other scenes, integrating IoT, intelligent perception, remote control and other technologies; realizing monitoring automation, early warning intelligence, and digital management; online query and sharing of historical data curves, providing a scientific basis for decision-making, and effectively ensuring the quality and environmental safety of the water environment. Through various sensors, various parameters in the water, such as dissolved oxygen, ammonia nitrogen, pH, etc., can be measured in real time. These sensors transmit data to the cloud platform through wireless networks to realize remote real-time monitoring of the cloud platform. It can analyze and process the received water quality data in real time and form a data curve chart, which can more accurately understand the changing trends and potential problems of water quality.

2. Function

Access to various water quality sensors

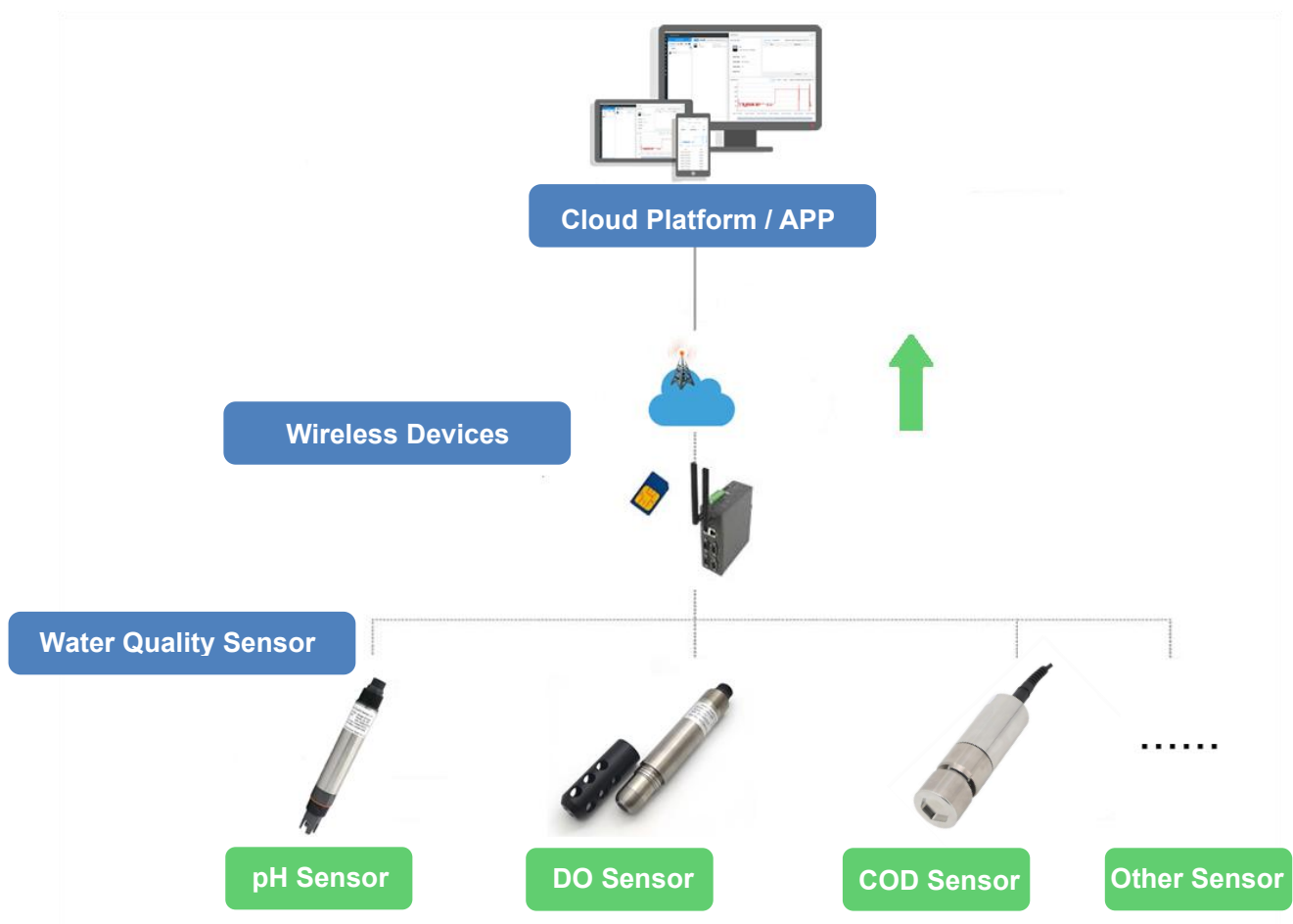
View historical data

Abnormal alarm function

Automatically upload data

Cloud platform supports multi-site expansion access

3. System Architecture



Water Quality Sensor

Introduction to Common Water Quality Sensors



COD Sensor (KWS-100)

Ammonia Nitrogen Sensor
(KWS-200)



Conductivity Sensor
(KWS-300)

DO Sensor (KWS-600)



Ph Sensor (KWS-700)

Multi-Parameter
Water Quality Sensor
(KWS-800)



More water quality sensors--->[Water quality parameters introduction collection](#)

Wireless Devices

LoRa Model

Features:

- Ultra-long distance communication (several kilometers to tens of kilometers)
- Ultra-low power consumption
- Low rate, suitable for small data volume and low-frequency transmission



4G/5G Model

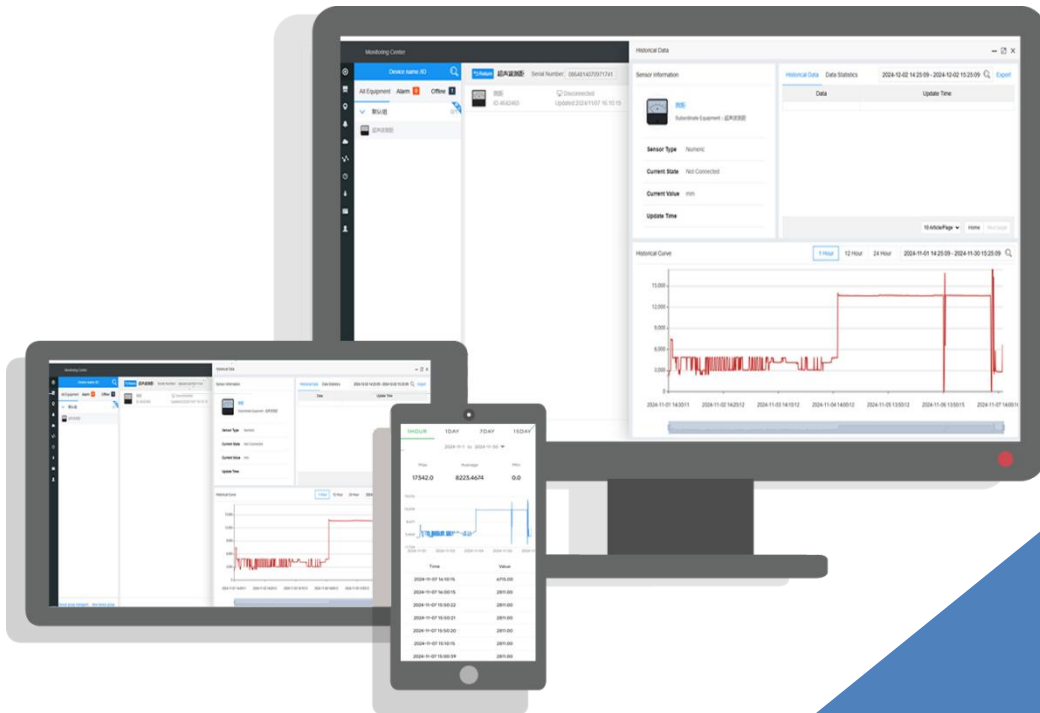
Features:

- High rate, large bandwidth
- Support mobile communication network
- High power consumption, expensive

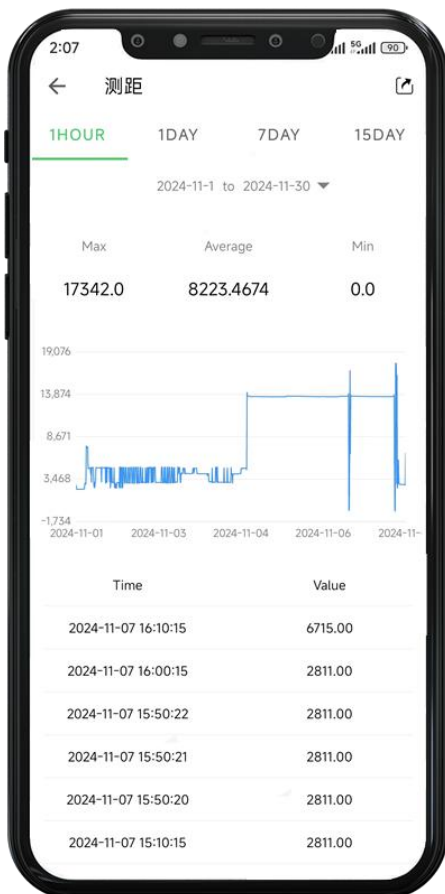


Cloud Platform / APP

1.Cloud Platform



2.APP



Advantages

- ❖ Real-time data viewing and storage
- ❖ Chart trend analysis
- ❖ Alarm threshold setting and push (SMS/email/WeChat)
- ❖ Support data export

Video-->[4G module + multiple water quality sensors + cloud platform](#)



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