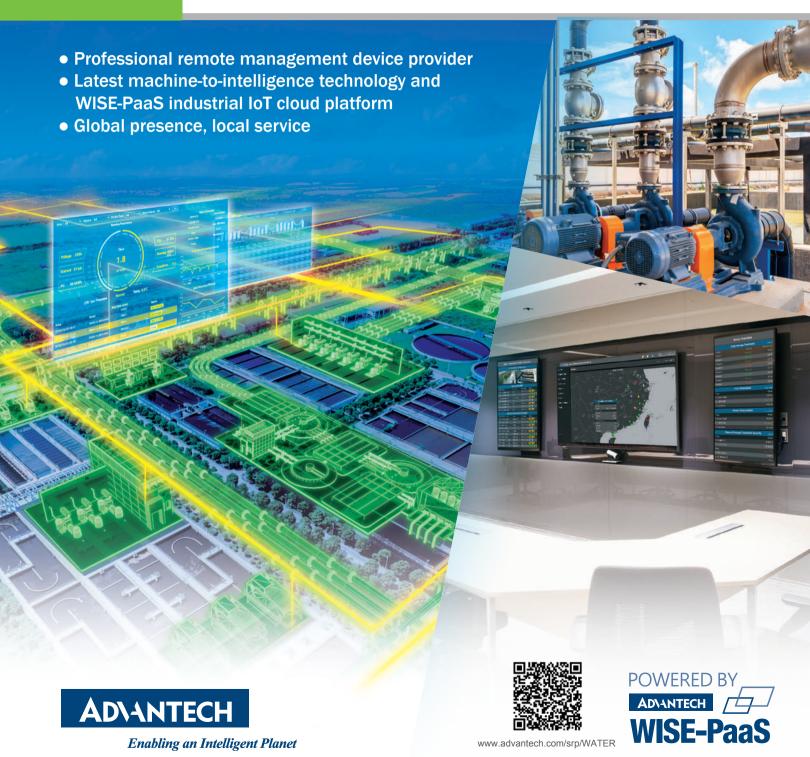
Energy & Environment

Intelligent Water Management Solution

Cloud-Enabled Remote Equipment Management for Water and Wastewater

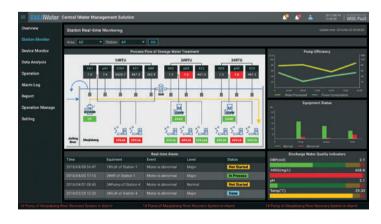
Solution Ready Package

SRP-WMS400



System Introduction

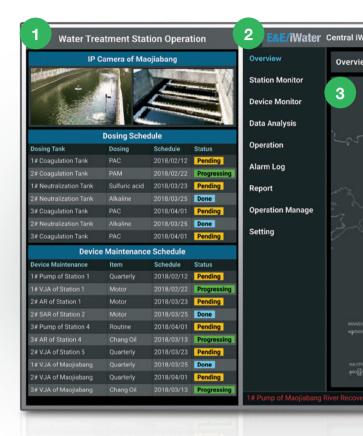
Advantech's intelligent water management solutions integrate machine-to-intelligence (M2I) technology, domain-specific knowledge on water equipment and processing technologies, and the WISE-PaaS industrial IoT cloud platform to provide four cloud-based remote equipment solution-ready packages covering water pumps, blowers, pump stations, and bio-tank applications.



Real-Time Station Monitoring Station

- Sewage water treatment process flow
- Real-time alarm management
- Pump efficiency
- Equipment status
- Discharge water quality indicators

WISE-PaaS/Dashboard



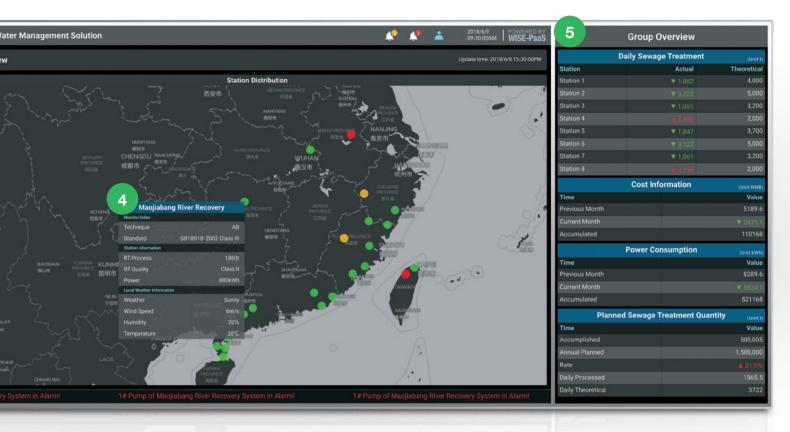
Overview of Critical Water Treatment Station Operations

- Real-time remote IP camera monitoring of the assets in the field
- Dosing schedule and progress status
- Key device management schedule and equipment status

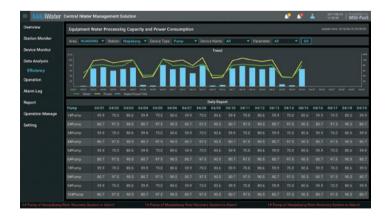


Real-Time Equipment Monitoring

- Key running parameters
- Real-time alarm management
- Basic information
- Daily water processing capacity and efficiency

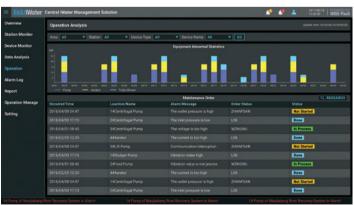


- 2 Central iWater Management Solution Home Page
 - Main menu for quick access to key dashboard functions
 - Quick view of alert notifications
- 3 Station Geographical
 Distribution Map and
 Operation Status by Color
- 4 Overview of the Current Status of Individual Station
- 5 Group Overview with Key Performance Scorecard
 - Actual and targeted daily sewage treatment performance
 - Cost information and power consumption on key equipment
 - Daily vs. annual sewage treatment quantity



Equipment Water-Processing Capacity and Power-Consumption Analysis

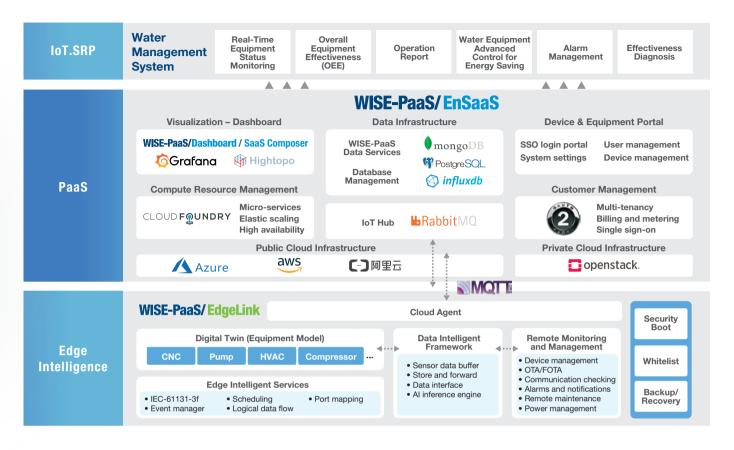
- Run chart within 30 days
- Daily report of operating pumps



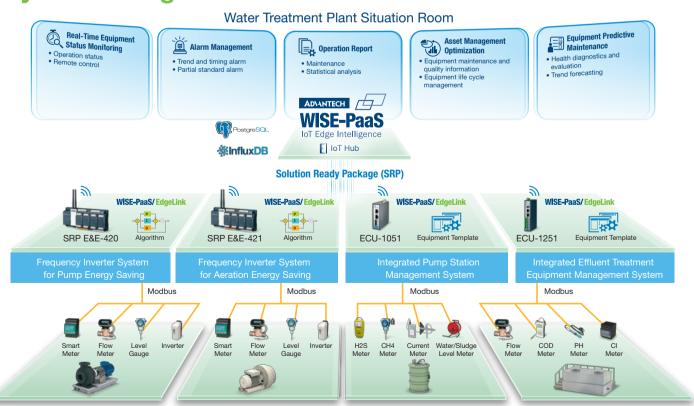
Equipment Operation and Maintenance

- Statistics on equipment abnormalities
- Maintenance schedule and status report

Software Diagram



System Diagram



Water Pump Blower Integrated Pump Station Bio-Tank

Feature Highlights

Equipment Energy Saving

Low-power product features and support for industrial-grade specifications

Water Agent Saving

Fully control dosages with real-time monitoring

Increased Efficiency

Enhance project development efficiency and after-sales maintenance

Decreased Labor Costs

Efficient solution with stable operation

Application Stories

Intelligent Sewage Solution for Centralizing Water Treatment

- Visualization of cloud data for centralized management
- Analysis of sewage treatment data to expedite decision-making
- Reduced treatment costs, improved system stability, and enhanced functionality



River Treatment Monitoring Anytime, Anywhere

- Real-time treatment monitoring from remote locations
- Track the operational status of equipment
- Overview of river treatment processes and on-site contingency measures



Remote Monitoring of Rainwater and Domestic Wastewater Treatment

- Reliable raw data collection for ad hoc data analysis
- Real-time monitoring of critical water treatment parameters and equipment operational status
- Refined and expedited water treatment reduces energy usage requirements



Wastewater Treatment Plant Monitoring and Control

- Cost-effective integrated solution for seamless implementation
- Remote supervision of on-site data acquisition with zero data loss
- Automatic monitoring and control enhances project development and after-sales maintenance



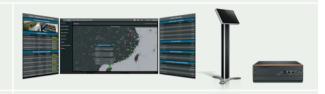
Ordering Information

Solution Package

WISE-PaaS Situation Room

SRP-SR-100-BTO

LCD Wall: 1 x 86" + 2 x 55" Server and Display: 1 x DS-980 Control Panel: 1 x UTC-520 1 x WISE-PaaS/Signage CMS



WISE-PaaS VIP Membership

98DPWAP2K

WISE Point: 2,000 points



SRP-WMS012

Water Management System

HPC-7242 x 1 Windows Server 2016 R2 WebAccess/SCADA



SRP-WMS420

Frequency Inverter System for Pump Energy Saving UNO-2483G x 1 ADAM-3600 x1 Windows Server 2016 R2 WebAccess/SCADA





SRP-WMS425

Integrated Pump Station Management System ECU-1051 x1 WISE-PaaS/EdgeLink



WISE-PaaS/EdgeLink

SRP-WMS426

Integrated Effluent Treatment Equipment Management System

ECU-1251 x1 WISE-PaaS/EdgeLink



WISE-PaaS/EdgeLink

Optional Purchase

IoT.SENSE Training	Basic training Advanced training	2 days 1 day
IoT.SENSE Consulting	IoT Solution and On-Site Technical Support	3 days

Advantech Headquarters

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