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
Enable project development efficiency and water maintenance

Decreased Labor Costs
Efficient solution with stable operation

Ordering Information

Solution Package

Wise-PaaS Solution Room
SRP-SR-100-010
LCD Wall: 1 x 65” + 2 x 55”
Server and Display: 1 x UC380S
Control Panel: 1 x UTC-520
1 x Wise-PaaS/Signage CMS

Wise-PaaS VIP Membership
SRP-WMS050
Wise-Point: 2,000 points

Wise-PaaS Scan to Pay
SRP-WMS020

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
• Overview of new 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
• Reduced 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 water maintenance

Optional Purchase

IoT.SENSE Training
● Basic training
2 days
● Advanced training
1 day

IoT.SENSE Consulting
● IoT Solution and On-Site Technical Support
3 days

Energy & Environment

Intelligent Water Management Solution
Cloud-Enabled Remote Equipment Management for Water and Wastewater

Solution Ready Package

SRP-WMS400

Professional remote management device provider
Latest machine-to-intelligence technology and Wise-PaaS industrial IoT cloud platform
Global presence, local service

Intelligent Water Management Solution
Energy & Environment

Solution Ready Package

SRP-WMS400

Professional remote management device provider
Latest machine-to-intelligence technology and Wise-PaaS industrial IoT cloud platform
Global presence, local service
System Introduction

Advanvert’s intelligent water management solution integrates 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.

WISE-PaaS/Dashboard

1. Overview of Critical Water Treatment Station Operations
   - Real-time remote IP cameras monitoring of the assets in the field
   - Display the status of key equipment

2. Central Water 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
   - Overview of the current status of individual station

4. Group Overview with Key Performance Scorecard
   - Daily vs. annual sewage treatment performance
   - Cost information and power consumption on key equipment

Software Diagram

1. IoT.SRP
2. Edge Intelligence
3. IoT.Hub
4. High availability
5. Microservices

System Diagram

1. Water Treatment Plant Situation Room
2. Solution Ready Package (SRP)
WISE-PaaS/Dashboard

Real-Time Station Monitoring Station
- Real-time remote IP camera monitoring of the assets in the field
- Dying 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

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 utilization
- Maintenance schedule and status report

Software Diagram

System Introduction

Advantech’s intelligent water management solution integrates macro-to-micro intelligence (IoS) 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.

System Diagram

Image of System Diagram
**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-tech applications.

**WISE-PaaS/Dashboard**

- **Overview of Critical Water Treatment Station Operations**
  - Real-time remote IP cameras
  - Monitoring of the assets in the field
  - Diving schedule and progress status
  - Key device management schedule and equipment status

- **Central Water Management Solution Home Page**
  - Main menu for quick access to key dashboard functions
  - Quick view of alert notifications

- **Station Geographical Distribution Map and Operation Status by Color**

- **Group Overview with Key Performance Scorecard**
  - Actual vs. targeted daily sewage treatment performance
  - Cost information and power consumption on key equipment
  - Daily vs. annual sewage treatment performance

**Real-Time Station Monitoring Station**
- Real-time water treatment process flow
- Real-time alarm management
- Pump efficiency
- Equipment status
- Discharge water quality indicators

**Real-Time Equipment Monitoring**
- Key operating parameters
- Real-time alarm management
- Basic information
- Daily water processing capacity and efficiency

**Equipment Water-Processing Capacity and Power-Consumption Analyses**
- Run chart within 30 days
- Daily report of operating pumps

**Equipment Operation and Maintenance**
- Statistics on equipment performance
- Maintenance schedule and status report

**Software Diagram**

**System Diagram**

- Water Treatment Plant Situation Room
  - Water flow and management
  - COD and effluent monitoring
  - Alarm and notification

- Equipment Management System
  - Device management
  - User management
  - Billing and metering

- Private Cloud Infrastructure
  - Single sign-on
  - Multi-tenancy
  - SSO login portal

- Public Cloud Infrastructure
  - Data services management
  - Customer management
  - Data services management

- Edge Intelligence
  - Edge intelligent services
  - Data throughput and management
  - Power management
  - Remote maintenance
  - Alarms and notifications
  - Communication checking
  - OTA/FOTA

- Compute Resource Management
  - High availability
  - Elastic scaling
  - Microservices

- Intelligent Digital Twin (Equipment Model)
  - Algorithm
  - Statistical analysis
  - Maintenance
  - Performance forecast

- Intelligent System Settings and Management
  - Security
  - Backup/Restore
  - Software update

- Integrated Effluent Treatment Plant
  - Integrated Water Treatment Plant
  - Integrated Water/Sludge Treatment Plant
Feature Highlights

- Equipment Energy Saving
- Water Agent Saving
- Increased Efficiency
- Decreased Labor Costs

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  - 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 enhance project development and after-sales maintenance

Ordering Information

<table>
<thead>
<tr>
<th>Solution Package</th>
<th>SRP-SR-102-010</th>
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</thead>
</table>
| WISE-PaaS Situation Room | LCD Wall: 1 x 56" + 2 x 55"
| | Server and Display: 1 x IPC-660
| | Control Panel: 1 x UTC-520
| | 1 x WISE-PaaS/Runtime CMS

<table>
<thead>
<tr>
<th>WISE-PaaS VIP Membership</th>
<th>SRP-WM5012</th>
</tr>
</thead>
</table>
| SRP-WM5020 Water Management System | HPC-T742 x 2
| | Windows Server 2016 R2
| | WebAccess/SCADA

| SRP-WM5420 Frequency Inverter System for Pump Energy Saving | UNO-5803-G1 x 1
| | ADAM-3600 x 1
| | Windows Server 2016 R2
| | WebAccess/SCADA

| SRP-WM5425 Integrated Pump Station Management System | ECU-1061 x 1
| | WISE-PaaS/EdgeLink

| SRP-WM5426 Integrated Effluent Treatment Equipment Management System | ECU-1061 x 1
| | 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

Energy & Environment

Intelligent Water Management Solution

Cloud-Enabled Remote Equipment Management for Water and Wastewater

- Professional remote management device provider
- Latest machine-to-intelligence technology and WISE-PaaS industrial IoT cloud platform
- Global presence, local service

Solution Ready Package

SRP-WMS400

- Professional remote management device provider
- Latest machine-to-intelligence technology and WISE-PaaS industrial IoT cloud platform
- Global presence, local service

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- Increased Efficiency
- Decreased Labor Costs
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Wastewater Treatment Plant Monitoring and Control
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- Automatic monitoring and control enhances project development and after-sale maintenance

Ordering Information

Solution Package

WISE-PaaS Situation Room
SRP-SR-100-BTO
- LCD Wall: 1 x 66” + 2 x 55”
- Control Panel: 1 x UTC-520
- WebAccess/SCADA CMS

WISE-PaaS VIP Membership
SRP-CHN20K
- WISE Point: 2,000 points

SRP-WMS5012 Water Management System
- HPC-T242 x 1
- Windows Server 2016 R2
- WebAccess/SCADA

SRP-WMS420 Frequency Inverter System for Pump Energy Saving
- UNO-3850G x 1
- ADAM-3600 x 1
- Windows Server 2016 R2
- WebAccess/SCADA

SRP-WMS425 Integrated Pump Station Management System
- ECU-1051 x 1
- WISE-PaaS/EdgeLink

SRP-WMS426 Integrated Effluent Treatment Equipment Management System
- ECU-1251 x 1
- WISE-PaaS/EdgeLink

IoT.SENSE Training

| Basic Training | 2 days |
| Advanced Training | 1 day |

IoT.SENSE Consulting

| IoT Solution and On-Site Technical Support | 3 days |

Optional Purchase

- Cloud-Enabled Remote Equipment Management for Water and Wastewater
- Intelligent Water Management Solution: Energy & Environment
- Professional remote management device provider
- Latest machine-to-intelligence technology and WISE-PaaS industrial IoT cloud platform
- Global presence, local service

WISE-PaaS Situation Room
SRP-SR-100-BTO
- LCD Wall: 1 x 66” + 2 x 55”
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WISE-PaaS VIP Membership
SRP-CHN20K
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SRP-WMS5012 Water Management System
- HPC-T242 x 1
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- WebAccess/SCADA

SRP-WMS420 Frequency Inverter System for Pump Energy Saving
- UNO-3850G x 1
- ADAM-3600 x 1
- Windows Server 2016 R2
- WebAccess/SCADA

SRP-WMS425 Integrated Pump Station Management System
- ECU-1051 x 1
- WISE-PaaS/EdgeLink

SRP-WMS426 Integrated Effluent Treatment Equipment Management System
- ECU-1251 x 1
- WISE-PaaS/EdgeLink