

All-in-One Sensing, Smart Water Control

R900 Series

Wireless pH & ORP Sensor

R900PD05A01

Our newly developed **R900PD05A01 Wireless pH & ORP Sensor** combines **pH** measurement for acid, alkali, and salt solutions, water quality **ORP** (Oxidation-Reduction Potential) detection, and a single-channel DO output. By integrating **“monitoring + control,”** it provides an efficient, accurate, and convenient solution for a wide range of water quality management applications.



ORP Range/Resolution

-1500 ~ +1500mV / 1mV

pH Range/Resolution

0-14pH / 0.01 pH

Measurement Accuracy

pH: ± 0.3 pH / ORP: ± 20 mV

See, Hear, and Link

When the R900PD05A01 detects ORP, or pH values exceeding or falling below their thresholds...



WA08
VisionSense Camera



See

Capture and send image of objects.



R603
Wireless Customized
Voice Announcer



Hear

Sound custom alarm to notify people.



3rd-party device



Linkage

Get 3rd-party device controlled via dry contact.

Application Scenarios

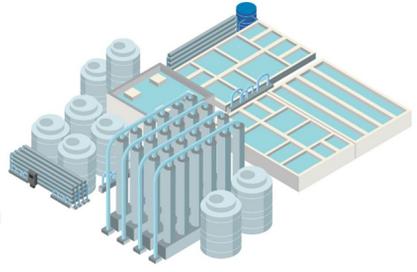
Industrial Wastewater & Environmental Treatment

Application:

Monitoring pH and chemical residue (ORP) in discharge water.

Linkage Actions:

When pH levels exceed safety thresholds, the DO output automatically activates **neutralization pumps** or closes **discharge valves**, ensuring regulatory compliance and operational safety.



Smart Aquaculture



Application:

Water quality health monitoring for fish and shrimp ponds.

Linkage Actions:

If ORP levels drop (indicating low oxygen or water decay), the local DO triggers **aerators** or **water exchange pumps** immediately.

Swimming Pools & Landscape Water

Application:

Automated monitoring of disinfection (ORP) and pH balance.

Linkage Actions:

Automatically controls chemical feeders to maintain water clarity and reduce manual labor costs.



Chemical Process Control



Application:

Online detection of acid/alkali/salt solutions on production lines.

Linkage Actions:

Triggers **emergency shut-off valves** or **strobe sirens** locally if a reaction becomes too volatile or exceeds thresholds.