

Smart Level Sensing, Smart IoT Linkage

R900 Series

Wireless Ultrasonic Material Level
Detection Sensor

R900PD06A01

NETVOX's ceiling-mounted ultrasonic detector offers accurate level sensing for liquids, materials, and parking spaces. With a 20° detection angle, strong signal, and anti-tamper features, it delivers low-power, reliable IoT monitoring for industrial applications.



Measurement Range

0.25 – 8 m

Detection Angle

Approximately 20°

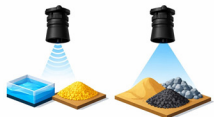
Measurement Accuracy

$\pm(1+S \times 0.3\%) \text{ cm}$
(S is the current measured distance)

Product Highlights

High-precision detection for multiple scenarios, strong adaptability to irregular materials

- Equipped with a professional ultrasonic sensor, it provides long-distance measurement with high accuracy and a minimal blind zone, suitable for all flat liquids and solids.
- 20° detection angle with strong signal captures irregular materials like grain, sand, and ore, improving measurement stability.



Smart Linkage + Intelligent Alarm

Equipped with a digital DO output interface, the device can locally link to third-party DI devices when a threshold alarm is triggered, enabling automatic control and emergency response.



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.

Convenient Configuration + Data Storage, No Loss of Off-network Data

- **Built-in NFC** – Configure settings and upgrade firmware via mobile NFC, no wiring required, easy on-site operation.
- **Large-capacity data storage** – Stores up to 10,000 records, ideal for long-term off-network scenarios.
- **Off-network data retransmission** – Continues sampling offline and automatically uploads stored data every 30 s after reconnection, ensuring complete, continuous records.



Application Scenarios

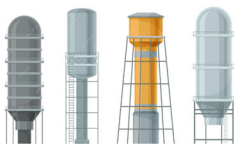
Industrial Material Level Monitoring

Application:

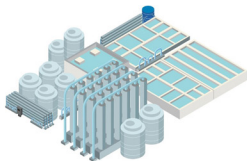
Real-time level monitoring of irregular bulk materials like grain, cement, sand, ore, and chemicals.

Linkage Actions:

It automatically starts **feeding** when levels fall below the low threshold and stops when levels exceed the high threshold via its **DO interface**, ensuring seamless, efficient material management.



Municipal/Water Conservancy Liquid Level Monitoring



Application:

Ideal for water supply, drainage, and water conservancy, it delivers precise liquid level monitoring for tanks, reservoirs and wells. Rugged IP65 design ensure reliable performance in harsh environments.

Linkage Actions:

If water levels reach or fall below preset thresholds, the local **DO interface** instantly triggers **pumps** to start or stop.

Sanitation Facility Overflow

Application:

Accurately monitoring garbage level and overflow for smart trash cans, transfer stations, and collection boxes

Linkage Actions:

When the garbage stacking reaches the preset overflow threshold, the device **DO interface** links with the trash can overflow **indicator light** to turn on, and triggers platform **alarm**.



Warehousing and Logistics Material Level Monitoring



Application:

Monitoring the stacking height and remaining inventory of various goods in warehouses, and can also detect overflow of logistics containers, material bins, and smart shelves.

Linkage Actions:

When bins reach the high threshold, the **DO interface** triggers **AGVs and sorting equipment**; when shelves fall below the low threshold, it **alerts** the warehouse management system for restocking.