



# WS201

## Smart Fill Level Sensor

Time-of-Flight (ToF) technology

**WS201 is a wireless fill-level monitoring sensor that monitors small container's fill level e.g., tissue boxes.**

**WS201 is suited for close-range sensing applications with high accuracy.**

**WS201 comes with high-focusing detection range from 1 to 55 cm with high accuracy applying on Time-of-Flight technology.**

**Damp-proof internal coating ensure that WS201 works well in various conditions within bathrooms.**

**WS201 applies a 590mAh CR2450 Lithium battery providing around two-years battery life.**

**WS201 is equipped with NFC for easy mobile app configuration (Android and iOS).**

**WS201 is compliant with standard LoRaWAN® gateways and network servers.**

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### Wireless transmission

Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/19 dBm (470 MHz)/22 dBm (915 MHz)
Sensitivity	-132dBm@300bps
Mode	OTAA/ABP Class A

### ToF

Field of view	25°
Field of view accuracy	± 5°
Detection range	1 - 55 cm
Detection accuracy	± 1 cm
Detection resolution	1mm (1.0≤X≤15.0cm), 2mm (15.0<X≤35.0cm), 3mm (35.0<X≤55.0cm) X = Detection distance

### Others

Button	Reset (Internal)
LED	1 × Status indicator (Internal)
Configuration	Mobile App via NFC

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### Physical characteristics

Power supply	1 × 590mAh CR2450 Lithium battery
Battery life	Around 2 years For guideline purposes only!
Operating temp.	-10°C to +60°C
Relative humidity	0% to 95% non-condensing
Ingress protection	IP30
Dimension/Material	66 × 38 × 12 mm (2.60 × 1.50 × 0.47 in) / PC+ABS (Flame retardant), white
Installation	On flat surface with 3M tape

### Dimensions in mm

