

WASTE BIN SENSOR

Overview

NETOP Waste Bin sensor is a long range wireless sensor which can be used for monitoring waste container’s fill level of waste bin/container by using highly optimized ultrasonic sensor. It enables an optimization in the route planning for waste collection and provides improved container management. This sensor is compatible with LoRaWAN technology. The standard version of this sensor is powered by three replaceable 3.6 V AA sized battery (included with purchase).

Key Features

- Real plug & play
- Easy to mount & install
- Compatible with LoRaWAN™ specification
- Maintenance free – install & forget
- Secure communication
- Ultra Low Power Consumption
- Certifications: LoRaWAN™, CE



Communication Specs

- The sensor uses Low Power Wide Area Network-LPWAN technology(LoRa) for connectivity
- Compliant with AS923, AU915, EU868, KR920, IN865 or US915 MHz ISM bands
- Low power consumption
- Long range wireless data transmission(upto 15km)
- Antenna Types: Internal(default) or External(depend on request) Antenna
- Radio Performance : Upto +14 dBm TX power and -137 dBm RX sensitivity

Mechanics

- Housing: ABS
- Dimensions: 90 x 55 mm
- Operating temperature: -40°C to +85°C

Data Security

- AES-128

Power Supply

- AA Battery 3.6 V Li-SOCI2-Saft LS 14500 (Standard 3 pieces battery)

Indicators

- RGB Status LED (on board)

Sensor Specifications

Detection range	:	15-300 cm
Accuracy	:	± 1 cm
Data Transmission Period	:	Every hour(default)

Certifications & Reliability

- LoRaWAN™ Certified
- CE
- EN 62479
- EN60950
- EN 301 489-1
- EN 301 489-17
- EN 300 328

Applications

- Waste Bin level monitoring applications