WoMaster

Fill-Level Ultrasonic NBIoT Sensor

IS101-FL-LR-BT8-4M

The IS101-FL-LR-BT8 is a wireless fill-level sensor by ultrasonic detection for waste bins, postboxes, tanks, or containers. The sensor reports real-time status such as fill-in level, or temperature, or bent angle via LoRaWAN technology to LoRaWAN gateway WR322GR-EC-LORAWAN. It supports multiple LoRa band CN470、EU868、AS923、AU915、USS915、KR920、IN865、 RU868 for different region. The sensor is powered by 8500mAh battery and can work up to 8 years depending on work mode. The ABS enclosure is IP68 weather protected. Operation temperature is from -20~70C. The Fill-Level sensor can be easily attached to any type of container or tank top to monitor solids and liquids level.

LoRaWAN

Features & Benefits

Detection Technology	Ultrasonic
Detection Object	Solid or Liquid Level
Detection Range	4 meter Range
Enclosure	IP68
Installation	Mount on Container Cover (4 Meter Range)
Dimension	(D)115 x (H)40 mm
LoRaWAN	CN470,EU868,AS923,AU915,USS915,KR920,IN865, RU868
LoRaWAN mode	Class A
Weight	150g
Operating Temperature	-20 to 70°C
Power Supply	ER26500 lithium battery 8500mAh 3.6v
Battery Life	8 years(4 transmission times/day)

Fix on top of the cover of waste bin, with sensor facing down.

Features & Benefits

✓ LoRaWAN to Cloud

The LoRaWAN sensors forwards waste bin fill level to WR312/322 LoRaWAN gateway and the LoRaWAN gateway sends all sensor data to cloud platform via MQTT with encryption. The LoRaWAN gate support 4G LTE / WiFi or WAN port with programmable NodeRED tool for the collected data.

LoRaWAN Bin Sensors

LoRaWAN Programmable
MQTT Gateway

Ordering Information

Model	Description
IS101-FL-LR868-BT8-4M	IoT Fill-Level Ultrasonic Sensor IP66, 8500mAh Battery, LoRaWAN 868MHz, 8 Meter Range
	* LR433 / LR915 / LR923 / LR470 by request
WR322GR-EC-LTE-LORAWAN-EU868	Industrial LoRaWAN Gateway, 2GbE+2COM, LTE 2SIM, FDD B1/3/7/8/20/28A, LoRaWAN 868MHz
	* LR433 / LR915 / LR923 / LR470 by request
ThingsMaster OTA FL-100	Annual Fee- ThingsMaster OTA 100 Fill-Level Nodes on public server
	Package List
	Product Unit x 1
	TTL Configuration Tool (one/batch)
	Fixing Screws
	Magnetic Configuration Tool (Round 20x3mm)
	QIG