

# LoRaWAN Distance Detection Sensor

## LDDS45



## OVERVIEW:

The Dragino LDDS45 is a LoRaWAN Distance Detection Sensor for Internet of Things solution. It is used to measure the distance between the sensor and a flat object. The distance detection sensor is a module that uses **ultrasonic sensing** technology for distance measurement, and **temperature compensation** is performed internally to improve the reliability of data.

The LDDS45 can be applied to scenarios such as horizontal distance measurement, liquid level measurement, parking management system, object proximity and presence detection, intelligent trash can management system, robot obstacle avoidance, automatic control, sewer, bottom water level monitoring, etc.

It detects the **distance between the measured object and the sensor**, and uploads the value via wireless to LoRaWAN IoT Server.

LDDS75 is powered by **8500mAh Li-SOCI2 battery**, It is designed for long term use up to 10 years. (Actually Battery life depends on the use environment, update period.)

Each LDDS75 is pre-load with a set of unique keys for LoRaWAN registration, register these keys to local LoRaWAN server and it will auto connect after power on.

### Features:

- LoRaWAN v1.0.3 Class A
- Ultra low power consumption
- Distance Detection by Ultrasonic technology
- Flat object range 30mm - 4500mm
- Temperature Compensation for measurements
- Bands: CN470/EU433/KR920/US915
- EU868/AS923/AU915/IN865
- AT Commands to change parameters
- Uplink on periodically
- Downlink to change configure

### Order Info- LDDS45-XX

XX:

- XX: Frequency Bands, options:  
EU433,CN470,EU868,IN865,KR920  
AS923,AU915,US915