

# LoRaWAN 4-channels Ultrasonic Distance Sensor

## LDDS04



Model LDDS04 doesn't include probes.  
Probes are purchased separately

## OVERVIEW:

The Dragino LDDS04 is a **LoRaWAN 4-Channels Distance Sensor** for Internet of Things solution. It is capable to support up to four Ultrasonic Sensors to **measure four distances** at the same time.

The LDDS04 can be applied to scenarios such as horizontal distance measurement, parking management system, object proximity and presence detection, intelligent trash can management system, robot obstacle avoidance, automatic control, sewer, etc.

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

The LoRa wireless technology used in LDDS04 allows device to send data and reach extremely long ranges at low data-rates. It provides ultra-long range spread spectrum communication and high interference immunity whilst minimizing current consumption.

LDDS04 is powered by **8500mAh Li-SOCI2 battery**, it is designed for **long term use up to 5 years**.

Each LDDS04 is pre-load with a set of unique keys for LoRaWAN registrations, register these keys to local LoRaWAN server and it will auto connect after power on.

### Features:

- LoRaWAN 1.0.3 compliant
- max: 4 x Distance Detect Channels
- Different types of probes can be used together
- 8500mAh Li-SOCI2 Battery
- Firmware upgrade via console
- Wall Mountable
- Configurable via LoRa or UART
- Battery Monitoring and upload

### Dimension:

- Size: 150 x 120 x 55 mm
- Net Weight: As Per Probe option

## Application:

- Horizontal distance measurement
- Parking management system
- Object proximity and presence detection
- Intelligent trash can management system
- Automatic control

## Order Info:

LDDS04-XXX

XXX: Frequency band , includes:  
EU868, US915, AU915, AS923, EU433  
IN865, KR920, KZ865, RU864, CN470

### Probe Options:

- A01A-15
- A02-15
- A13-15
- A16-15

# LoRaWAN 4-channels distance sensor -- Probe Option

## A01A-15

- ※ Detect Distance: 28 cm ~ 750 cm
- ※ Blink Spot Distance: 0 ~ 28cm
- ※ Accuracy:  $\pm(1\text{cm}+S*0.3\%)$  (S: Distance)
- ※ Measure Angle:  $\sim 40^\circ$
- ※ Cable Length: 1.5 meter
- ※ Temperature Compensation
- ※ Suitable for Flat Object Detect
- ※ IP67 Water Proof



## A02-15

- ※ Detect Distance: 3cm ~ 450cm
- ※ Blink Spot Distance: 0 ~ 3cm
- ※ Accuracy:  $\pm(1\text{cm}+S*0.3\%)$  (S: Distance)
- ※ Measure Angle:  $\sim 60^\circ$
- ※ Cable Length: 1.5 meter
- ※ Temperature Compensation
- ※ Suitable for Flat Object Detect, Rubbish Bin
- ※ IP67 Water Proof



## A13-15

- ※ Detect Distance: 25cm ~ 200cm
- ※ Blink Spot Distance: 0 ~ 25cm
- ※ Accuracy:  $\pm(1\text{cm}+S*0.3\%)$  (S: Distance)
- ※ Measure Angle:  $\sim 20^\circ$
- ※ Cable Length: 1.5 meter
- ※ Temperature Compensation
- ※ Suitable for Flat Object Detect, Rubbish Bin
- ※ IP67 Water Proof



## A16-15

- ※ Detect Distance: 50cm ~ 1500cm
- ※ Blink Spot Distance: 0 ~ 50cm
- ※ Accuracy:  $\pm(1\text{cm}+S*0.3\%)$  (S: Distance)
- ※ Measure Angle:  $\sim 40^\circ$
- ※ Cable Length: 1.5 meter
- ※ Temperature Compensation
- ※ Suitable for Long Distance Detect, Water Level
- ※ IP67 Water Proof

