**DRAGINO**

# LoRaWAN Microwave Radar Distance Sensor

## LMDS200



# OVERVIEW:

The Dragino LMDS200 is a LoRaWAN Microwave Radar distance sensor. It uses use 24Ghz Microwave Radar to detect the distance between sensor and different objects. Different from ultrosonic or Lidar measurement. Microwave Radar is more reliable for condensation / dusty environment. It can sense correct distance even there is water or think dust on top of the sensor.

The LMDS200 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.

LMDS200 can measure two distances: the closest object and next object behind the closest one.

The LoRa wireless technology used in LMDS200 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.

LMDS200 is powered by 8500mAh Li-SOCl2 battery, it is designed for long term use up to 5 years.

Each LMDS200 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.

Applications:

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

### Order Info- LMDS200-XX

XX:

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

### Features:

- LoRaWAN 1.0.3 Class A
- Ultra-low power consumption
- 24Ghz Microwave Radar for distance detection
- Measure Range : 0.5m ~ 20m
- Accuracy - ±10cm
- Bands: CN470/EU433/KR920/US915/EU868/ AS923/AU915/IN865
- Detect distances for two objects

- Monitor Battery Level
- AT Commands to change parameters
- Uplink on periodically
- Downlink to change configure
- 8500mAh Battery for long term use
- Short uplink interval for Distance Alarm