



## DRAGINO LMDS120 LoRaWAN Microwave Radar Distance Sensor Instruction Manual

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### DRAGINO LMDS120 LoRaWAN Microwave Radar Distance Sensor Instruction Manual



- microwave radar sense area



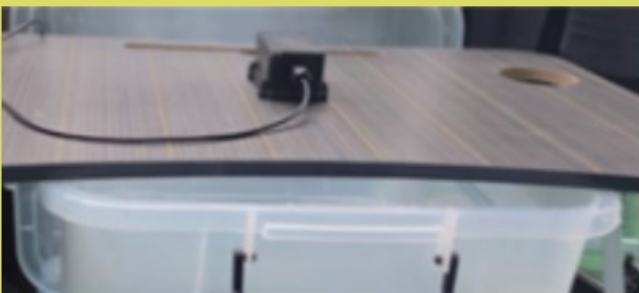
- works with heavy moisture



- works with dusty, soil over



- works out of container, through wood, plastic



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## OVERVIEW

The Dragino LMDS120 is a LoRaWAN Microwave Radar distance sensor. It uses Microwave Radar to detect the distance between sensor and different objects. Different from ultrasonic or Lidar measurement. Microwave Radar is more reliable for condensation / dusty environment. It can sense correct distance even there is water or thick dust on top of the sensor.

The LMDS120 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.

The LoRa wireless technology used in LMDS120 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. LMDS120 is powered by 8500mAh Li-SOCI2 battery, it is designed for long term use up to 5 years.

Each LMDS120 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 Class A
- Ultra-low power consumption
- 60Ghz Microwave Radar for distance detection
- Measure Range : 15cm ~ 1200cm
- Accuracy:  $\pm (3\text{mm} + S \cdot 0.2\%)$ . S: Measure Value
- Measurement Angle : 25 degrees horizontal and 23 degrees vertical
- Monitor Battery Level
- AT Commands to change parameters
- Uplink on periodically
- 8500mAh Battery for long term use

## Applications

- Horizontal distance measurement
- Water Level detect
- Grain Level detect
- Oil level detect

**Order Info: LMDS120-XXX**

**XXX:** The default frequency band

**XXX:** Frequency Bands, options: EU433,CN470,EU868,IN865,KR920 AS923,AU915,US915

**Dragoon Technology Co., Limited**


Room 202, Block B, BCT Incubation Bases (Bao Cheng Tai), No.8 Cai Yun Road Long Cheng Street, Long Gang District ; Shenzhen 518116,China

**Direct:** +86 755 86610829 |Fax: +86 755 86647123

[WWW.DRAGINO.COM](http://WWW.DRAGINO.COM)

[sales@dagino.com](mailto:sales@dagino.com)

**Documents / Resources**

	<p><a href="#">DRAGINO LMDS120 LoRaWAN Microwave Radar Distance Sensor</a> [pdf] Instruction Manual LMDS120 LoRaWAN Microwave Radar Distance Sensor, LMDS120, LoRaWAN Microwave Radar Distance Sensor, Microwave Radar Distance Sensor, Radar Distance Sensor, Distance Sensor, Sensor</p>
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**References**

- [🌀 Dragino :: Open Source WiFi, Linux Appliance](#)