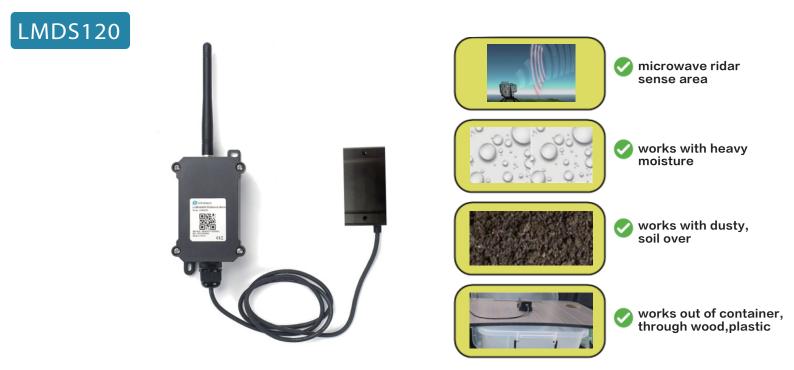


LoRaWAN Microwave Radar Distance Sensor



OVERVIEW:

The Dragino LMDS120 is a LoRaWAN Microwave Radar distance sensor. It uses use 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 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:± (3mm + S*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

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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

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