

# LoRaWAN Non Conct Liquid Level Sensor



## OVERVIEW:

The Dragino LDDS20 is a LoRaWAN Ultrasonic liquid level sensor for Internet of Things solution. It uses **non contact method** to measure the height of liquid in a container without opening the container, and send the value via LoRaWAN network to IoT Server.

The LDDS20 sensor is installed directly below the container to detect the height of the liquid level. User doesn't need to open a hole on the container to be tested. The **non contact measurement** makes the measurement safety, easier and possible for some strict situation.

LDDS20 uses ultrasonic sensing technology for distance measurement. LDDS20 is of high accuracy to measure various liquid such as: **toxic substances, strong acids, strong alkalis** and **various pure liquids** in high-temperature and high-pressure airtight containers.

The LoRa wireless technology used in LDDS20 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.

LDDS20 is powered by **8500mA Li-SOCI2** battery; It is designed for long term use up to 10 years\*.

Each LDDS20 pre-loads 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
- Liquid Level Measure by Ultrasonic technology
- Valid range 20mm - 2000mm
- High capacity 8500 mAh Li-SOCI2 battery
- Bands: CN470/EU433/KR920/US915
- EU868/AS923/AU915/IN865
- AT Commands to change parameters
- Uplink on periodically
- Downlink to change configure

### Applications:

- Smart liquid control solution.
- Smart liquefied gas solution.

### Order Info- LDDS20-XX

XX:

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