

NB-IoT None Conct Liquid Level Sensor

NDDS20



OVERVIEW:

The Dragino NDDS20 is a **NB-IoT 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 to IoT Server via NB-IoT network.

The NDDS20 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.

NDDS20 uses ultrasonic sensing technology for distance measurement. NDDS20 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.

NarrowBand-Internet of Things (NB-IoT) is a standards-based low power wide area (LPWA) technology developed to enable a wide range of new IoT devices and services. NB-IoT significantly improves the power consumption of user devices, system capacity and spectrum efficiency, especially in deep coverage.

NDDS20 supports different uplink methods include **TCP, MQTT, UDP** and **CoAP** for different application requirement.

NDDS20 is powered by **8500mAh Li-SOCI2 battery**, It is designed for long term use up to 5 years. (Actually Battery life depends on the use environment, update period & uplink method)

To use NDDS20, user needs to check if there is NB-IoT coverage in local area and with the bands NDDS20 supports. If the local operate support it, user needs to get a **NB-IoT SIM card** from local operator and install NDDS20 to get NB-IoT network connection.

Features:

- NB-IoT None Contact Liquid Level Measure
- Ultra low power consumption
- Liquid Level Measure by Ultrasonic technology
- Valid range 20mm - 2000mm
- High capacity 8500 mAh Li-SOCI2 battery
- NB Bands: B1/B3/B8/B5/B20/B28
- Uplink via MQTT,TCP,CoAP or UDP
- AT Commands to change parameters
- Uplink on periodically
- IP66 Waterproof Enclosure

Specifications:

NB-IoT Module:

- NB Module: Quectel BC95-G
- B1 @H-FDD: 2100MHz
- B3 @H-FDD: 1800MHz
- B8 @H-FDD: 900MHz
- B5 @H-FDD: 850MHz
- B20 @H-FDD: 800MHz
- B28 @H-FDD: 700MHz
- Protocol: CoAP, UDP, MQTT, TCP

Part Number - NDDS20

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