

# DF200 Level Sensor Datasheet

## \_LoRaWAN Version



Version: V1.1

Date: 2020-8-27

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## Disclaimer

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## Cautions

- The battery is non-rechargeable. Pls do not charge it.
- If the battery is out of power, please replace it with a battery of the same specification obtained from CNDingtek
- The battery can not work when temperatures is above 85 ° C.



## 1 Overview

DF200 is a Level Sensor, and automatic hand sanitizer; It can automatically sense, and periodically detect the capacity of liquid. When the level is less than the threshold, the information will be immediately transmitted to the cloud server through the built-in LoRaWAN module. Users can observe status information remotely. Through the LoRaWAN method, with high real-time performance and low power consumption.

Support CN470, EU433,IN865,EU868,US915,AU915, and AS923etc.

## 2 Features

- Easy to install and small in size
- Accurate and timely, real-time monitoring, alarm immediately
- Auto-sensing
- Liquid level measure
- Low power consumption.
- Multiple application environments.

## 3 Appliation

Widely used in Hotels, shopping malls, restaurants, schools, hospitals, public places, etc.,.



## 4 Specification

<b>Specification</b>	Dimension	121*107*261mm
	Color	White
<b>Detector</b>	Theory	Capacitive
<b>Measuring range</b>	Range	0%,25%,50% ,75%, 100%
<b>Capacity</b>	Liquid capacity	1000mL
<b>Wireless</b>	Wireless	LoRaWAN
	Band	CN470,EU433,EU868,IN865,AU915, US915,KR920,AS923 etc
	Working Mode	ClassA
	Activation	Default OTAA or ABP (Optiona)
<b>Power (optional)</b>	I :Innner battery	6V; Donot include the battery default
	II :Power supply	6VDC
<b>Environment</b>	Working Temperature	-20 ~ +70°C
	Storage Temperature	-40 ~ +85°C
<b>Installation</b>	Way	Wall-mounted

	Installation hole distance	80*94*72mm
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## 5 Mechanical Dimensions



(Note: For reference only, actual product updates are frequent without notice)

## 6 System network diagram



Through the built-in LoRaWAN wireless module, it transmits data to the gateway, Then the gateway transmits the data to the network server by internet and application server. Finally, the user can monitor the status of the leve in real time according to the Web or APP, and online monitoring and management.

## 7 Protocol and API interface

The terminal communication protocol files are confidential documents and are only available to customers who purchased the device and signed NDA (non-disclosure agreement) documents with CNDingtek and his own company. If you want to integrate with your own system by using a protocol interface, please contact our sales team at [service@dingtek.com](mailto:service@dingtek.com).

## 8 Installation and Test

### 8.1 Start up device

The device is not connected to the power supply by default, Before use, please refer to the user's manual to power it on. Then start testing according to the instructions.

### 8.2 Installation

Installed on the wall through screw post.





## 9 Package

<b>Accessories name</b>	<b>Specification</b>	<b>Quantity</b>	<b>Note</b>
Device	DF200 level sensor	1	
TTL	Serial tools	1	Serial tools (at least one per batch of equipment)
Manual		1	