

DF200 Level Sensor Datasheet

_NB-IoT Version



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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 NB-IoT module. Users can observe status information remotely. Through the NB-IoT method, with high real-time performance and low power consumption.

It is optional for different frequency, such as the band B1(2100MHz), B3 (1800MHz), B5(850MHz), B8(900MHz), B20(800MHz)), and B28(700 MHz) and etc.

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

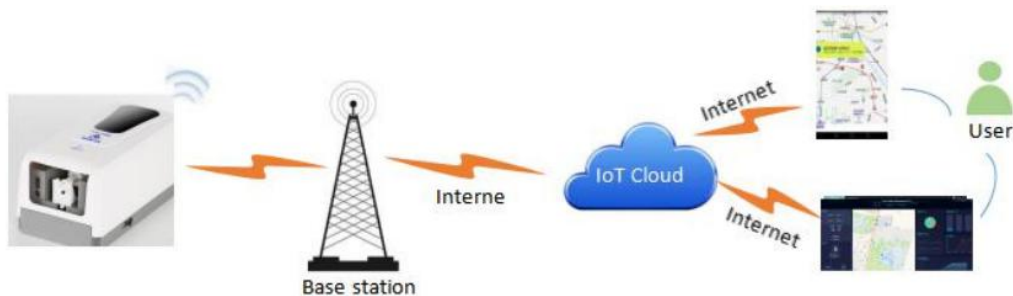
Specification	Dimension	121*107*261mm
	Color	White
Detector	Theory	Capacitive
Measuring range	Range	0%,25%,50% ,75%, 100%
Capacity	Liquid capacity	1000mL
Wireless	Wireless	NB-IoT
	Module	Quectel,BC35-G
	Band	B1,B3,B5,B8,B20,B28 etc
Power (optional)	I :Innner battery	6V; Donot include the battery default
	II :Power supply	6VDC
Environment	Working Temperature	-20 ~ +70°C
	Storage Temperature	-40 ~ +85°C
Installation	Way	Wall-mounted
	Installation hole distance	80*94*72mm

5 Mechanical Dimensions



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

6 System network diagram



Through the built-in NB-IoT wireless module, it transmit the status via NB-IoT sim card to base station, then via internet network to network server to 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.

8 Installation and Test

8.1 Start up device

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

8.2 Installation

Installed on the wall through screw post.



9 Package

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