

DC600 Water Sensor Datasheet _NB-IoT

Version



Version: V1.0

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Change Notes

V1.0 Initial 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

DC600 is a wireless water sensor that can be used in base stations, computer rooms, tunnels, fire water pipes and other places that need to detect water leaks; when the water immersion the detector, it will immediately trigger the sensor to report the alarm information to the application through the built-in NB-IoT module server. 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. As it is with algorithm of low power consumption, the internal battery can work for more than 3 years (at 4 hours interval upload interval).

2 Features

- Easy installation and operation
- Real-time response, fast detection, stable performance
- Low power consumption.
- Multiple application environments.

3 Appliation

Widely used in communication base stations, computer rooms, archives, subsea tunnels, pipe corridor systems, equipment cabinets, fire pipes and other places where water accumulation alarm is required for water leakage monitoring.

4 Specification

Specification	Dimension	80*78*30mm, Control box
	Color	Black
Detector	Theory	Electrode
	Quantity	2channel default; Can be expanded to 4 channels
Cable	Length	Default 2meters, the cable from control box to detector; Customizable
Wireless	Wireless	NB-IoT
	Module	Quectel,BC35-G
	Band	B1,B3,B5,B8,B20,B28 etc
Power supply	Built-in battery	Non-rechargeable battery, 3.6VDC, 8000mAh
Environment	Working Temperature	-20 ~ +70°C
	Storage Temperature	-40 ~ +85°C

5 Mechanical Dimensions



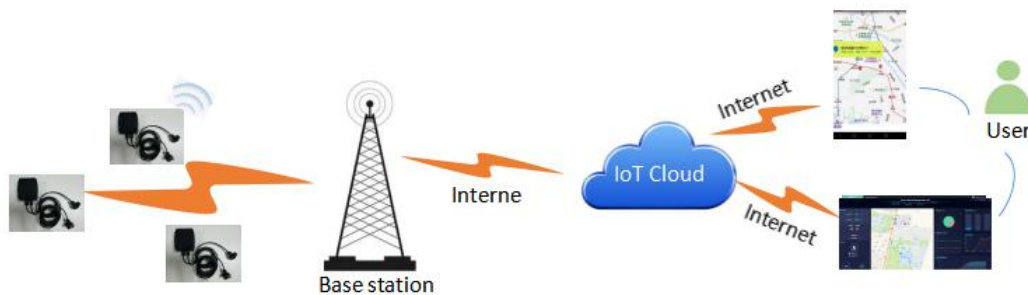
① Control box size: 80*78*30mm

② Cable length: default 2meters; Customizable

③ Detector size: 30*30*15mm

(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 water leaks in real time according to the Web or APP, and online monitoring and management.

7 Protocol and API interface

The terminal communication protocol and API interface 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 / API 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 by default, Before use, please refer to the instruction manual to open the case, connect the power supply and start the device. Then start testing according to the instructions.

8.2 Installation

The control box can be installed on the top or the side wall, and the detector is placed in a position where water leakage and water accumulation need to be detected.

9 Package

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

