

DC500 People Counter Datasheet

LoRaWAN Version



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Content

Disclaimer.....	1
Cautions.....	1
1 Overview.....	1
2 Features.....	1
3 Appliation.....	1
4 Specification.....	2
5 Mechanical Dimensions.....	3
6 System network diagram.....	3
7 Protocol and API interface.....	3
8 Installation and Test.....	4
8.1 Start up device.....	4
8.2 Installation.....	4
9 Package.....	4

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

DC500 is a People Counter, which can be used to count the number of people entering and leaving each place; when the number of people exceeds the limit, it will immediately pass the information to the cloud server through the built-in LoRaWAN module. It can be used for people statistics, over limit alarm and other functions.

Users can observe status information remotely. The device uses a built-in battery to transmit data through the LoRaWAN method, with high real-time performance and low power consumption.

Support CN470,EU433,EU868,IN865,AU915, US915,KR920,AS923 frequency etc, Due to the low power consumption algorithm, the internal battery can work for more than 1 years(Every day 50 times upload).

2 Features

- Accurate and timely , real-time monitoring, alarm immediately.
- Low noise, High sensitivity.
- Low power consumption.
- Multiple application environments.

3 Appliation

It is widely used in security protection, where it is necessary to count and control the number of people entering and exiting, such as supermarkets, shopping malls, museums, stadiums, parks, etc. It can realize monitoring and safety management such as personnel control.

In addition, it can be used in security alarm systems in homes, offices, and factories. When someone is detected, the alarm data can be reported immediately.



4 Specification

Specification	Dimension	80*78*30mm
	Net weight	40g
	Color	Black
	Shell material	ABS
Detector	Theory	PIR
	Delay time	2s
	Angle	120°
	Distance	5meters
Wireless	Wireless	LoRaWAN
	Band	CN470,EU433,EU868,IN865,AU915,US915,KR920,AS923 etc
	Working Mode	ClassA
	Activation	OTAA(default) or ABP Optional
	Communication distance	3km in view sight (depend on environment)
Power	Option I:inner battery	8000mAh 3.6VDC, non-recharged. Every day 50 times upload, battery can work for more than 1 years(depend on NB signal, environment and etc.).
	Option II:external power supply	6-13.8V DC

Environment	Working Temperature	-20 ~ +60°C
	Storage Temperature	-40 ~ +85°C

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 base station through the LoRaWAN gateway, Then transmits the data to the network server and application server through the internet . Finally, the user can monitor the number of people, or alarm status 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

- 1)With 3M glue, the device can be fixed on the top of door.
- 2)Use bracket to fix with screws.

9 Package

Accessories name	Specification	Quantity	Remark
Device	People counter	1	
TTL	Serial tools	1	Serial tools (at least one per batch of equipment)
Manual		1	