

# NB-IoT Dry Contact Sensor

CPN01



## OVERVIEW:

The Dragino CPN01 is an **NB-IoT Dry Contact Sensor**. It detects open/close status and uplinks the info to IoT server via NB-IoT network. User can see the dry contact status, open time, and open counts in the IoT Server.

The CPN01 will send periodically data every day as well as for each dry contact action. It also counts the contact open times and calculates the last open duration. Users can also disable the uplink for each Open/Close event, instead, device can count each open event and uplink periodically.

CPN01 has **Open-Alarm feature**, user can set this feature so CPN01 will send an alarm if the contact has been open exceeds a certain time.

CPN01 is designed for outdoor use. It has a weatherproof enclosure and industrial-level battery to work in low to high temperatures.

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.

CPN01 supports different uplink methods including **TCP, MQTT, UDP, and CoAP** for different application requirements.

CPN01 is powered by **8500mAh Li-SOCI2 battery**, It is designed for long-term use of up to 5 years.

To use CPN01, user needs to check if there is NB-IoT coverage in the field and with the NB-IoT bands that CPN01 supports. If local operator support it, user needs to get a **NB-IoT SIM card** from the operator and install into CPN01 to get NB-IoT network connection.

## Features:

- Outdoor Use
- Datalog feature
- Wall Mountable
- Open/Close detect
- Uplink periodically
- Open/Close statistics
- Monitor Battery Level
- Ultra-Low Power consumption
- Downlink to change configure
- Micro SIM card slot for NB-IoT SIM
- 8500mAh Battery for long-term use
- AT Commands to change parameters
- Uplink on periodically and open/close event
- NB-IoT Bands: B1/B3/B8/B5/B20/B28 @H-FDD

## Specifications:

### Common DC Characteristics:

- Supply Voltage: 2.1v ~ 3.6v
- Operating Temperature: -40 ~ 85°C

### NB-IoT Spec:

- B1 @H-FDD: 2100MHz
- B3 @H-FDD: 1800MHz
- B8 @H-FDD: 900MHz
- B5 @H-FDD: 850MHz
- B20 @H-FDD: 800MHz
- B28 @H-FDD: 700MHz

## Applications:

- Open/Close Detection
- Dry Contact Detection
- Pulse meter application

Order Info: CPN01

## Dragino Technology Co., Limited

Room 202, Block B, BCT Incubation Bases (BaoChengTai), No.8 CaiYunRoad  
LongCheng Street, LongGang District ; Shenzhen 518116,China  
Direct: +86 755 86610829 | Fax: +86 755 86647123

**WWW.DRAGINO.COM**  
sales@dragino.com