HFB – C400 User Manual

Table of Content

Hardware Description

1) Product Configuration

The image and configuration list of HFB-C400 is as follows:

LED

E-paper

Button

QR-Code
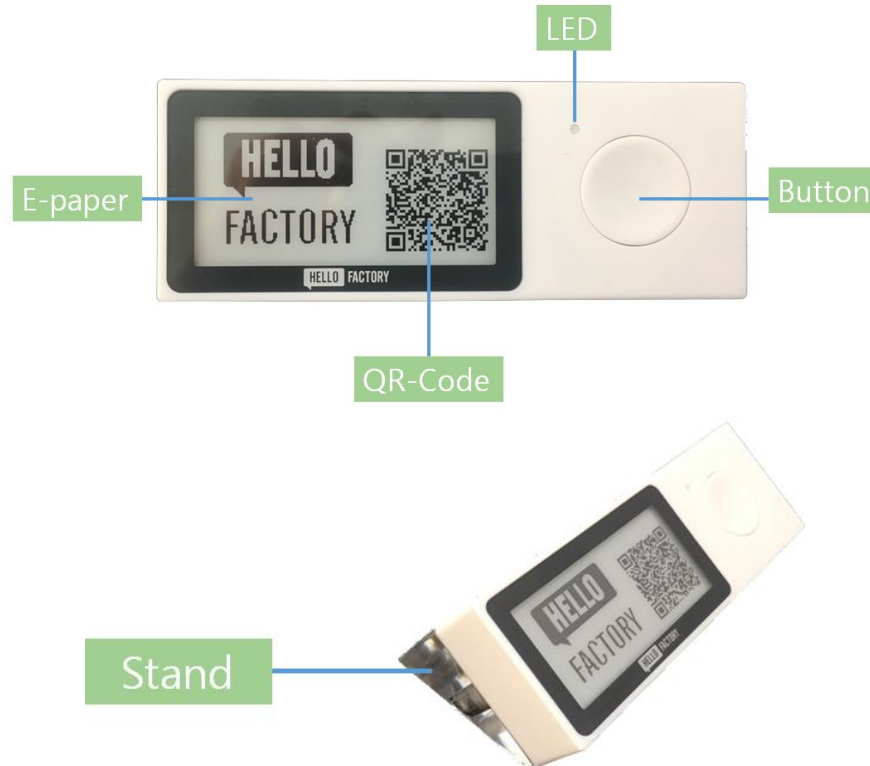
Stand

Item	Number
e-paper	1
Button	1
LED	1
Stand	1

AAA Battery	2

2) Product Specification

The image and specification of HFB-C400 is as follows:

C400

97

19

36.6
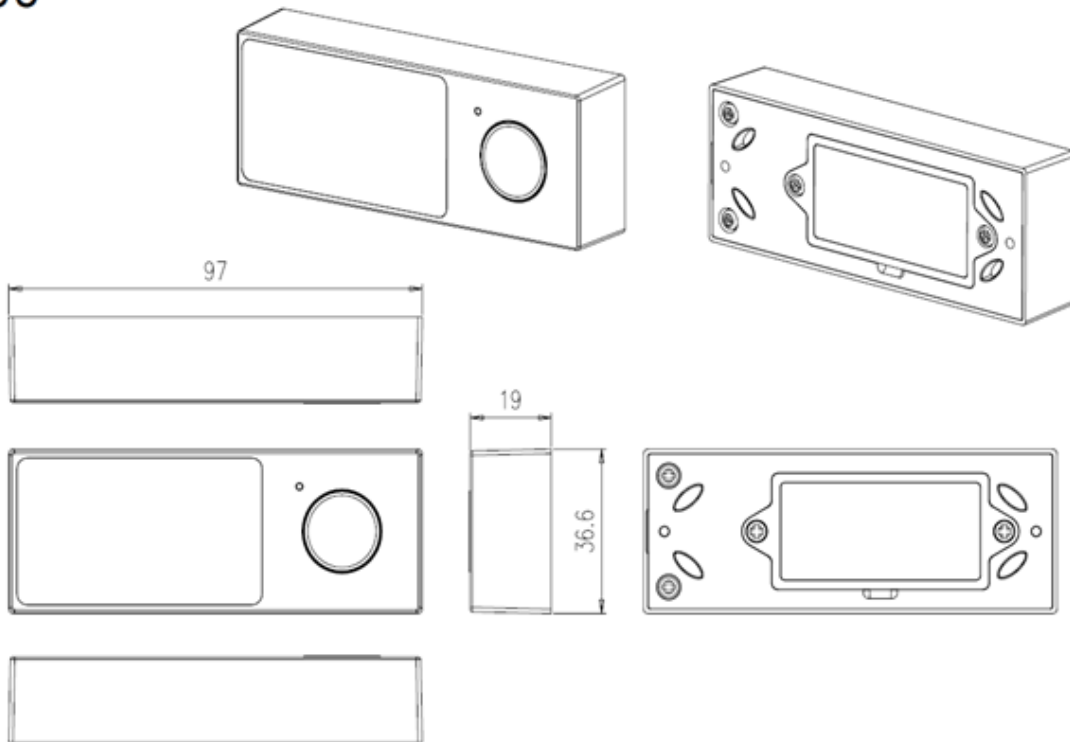
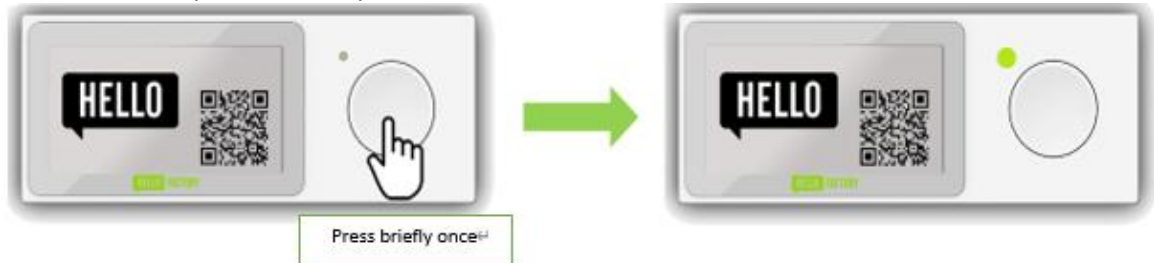95.0 X 19 X 35.8 - > 97.0 X 19 X 36.6

Description of actions

1. **Normal Mode**

1) When the button is pressed briefly:

Press briefly once

- Green LED flashes once and sends a BLE signal.

2) When the button is pressed for more than 2 seconds:

Press for 2 seconds
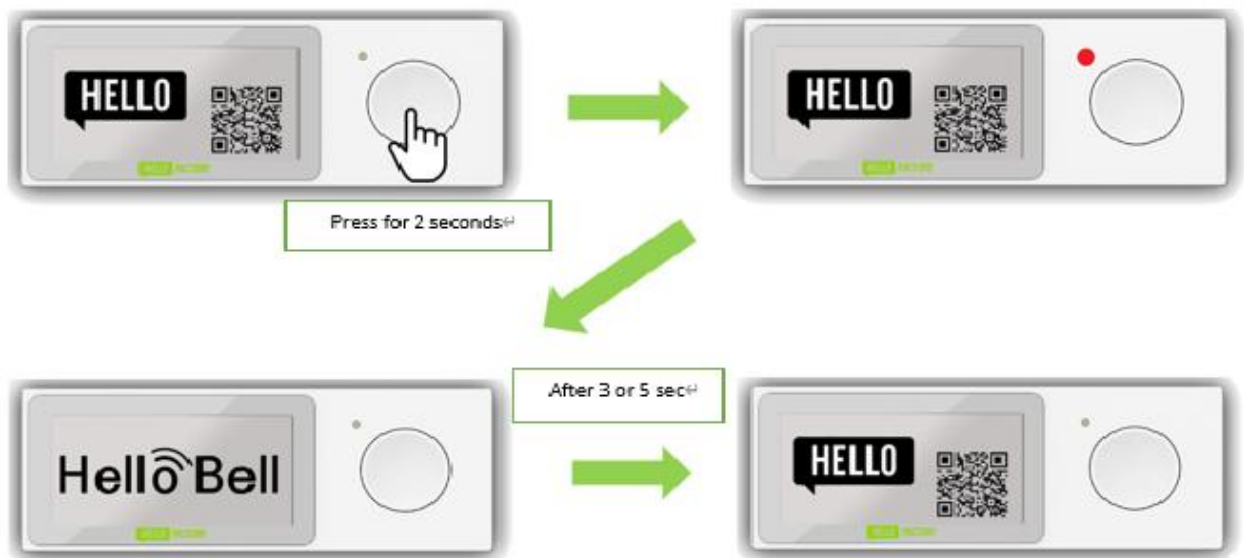
After 3 or 5 sec

- After red LED flashes once and the screen blinks, the screen switches to the second e-paper.
- After a set time (3 or 5 seconds), which can be set on the HelloBell website, the screen will flash and return to its first form.

3) When battery power is less than 2.5v:

Each 10 sec
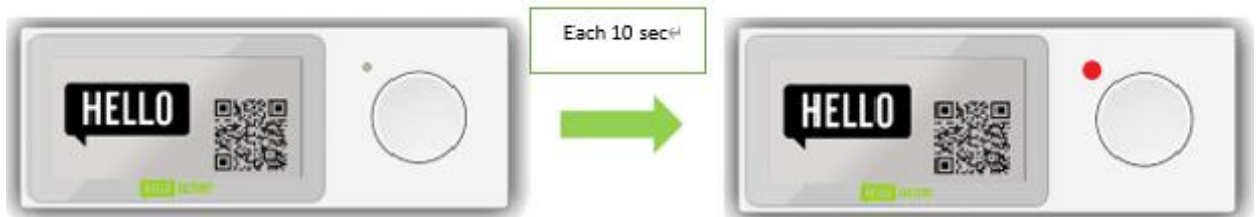
- Red LED flashes once every 10 seconds.

4) QR code scan:

Scan QR code

Visit HelloButton page, which was pre-registered in the store.

- Scan the QR code through your mobile phone.

- Visit HelloButton page, which was pre-registered in the store.

Click the button

Programmed calls and massages will be called

- Click the button to execute programed calls, messages, etc.

5) When the button is pressed for more than 5 seconds:

HELLO

MAC : 00:00:00:00:00:00
S/N : C400-00-00000
Time : 19-01-01 12:00:00
SSID : hellofactory
F/W : v1.0.0
BAT : 100%(3000mV)

Press for 5 seconds
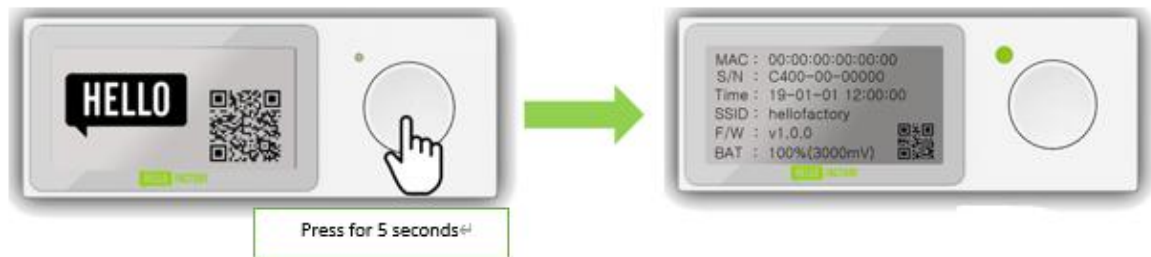
- **The green LED will blink to enter the setting mode.**

2. Setting mode.

1) Screen Setting mode:

- The screen displays the MAC address, serial number, time received from the server, current SSID, firmware version, current battery, and serial number QR code.
- When you enter the setting mode for the first time, the WiFi setting mode is entered first.
- By pressing a button, the setting mode can be changed.

If no action is taken for 30 sec
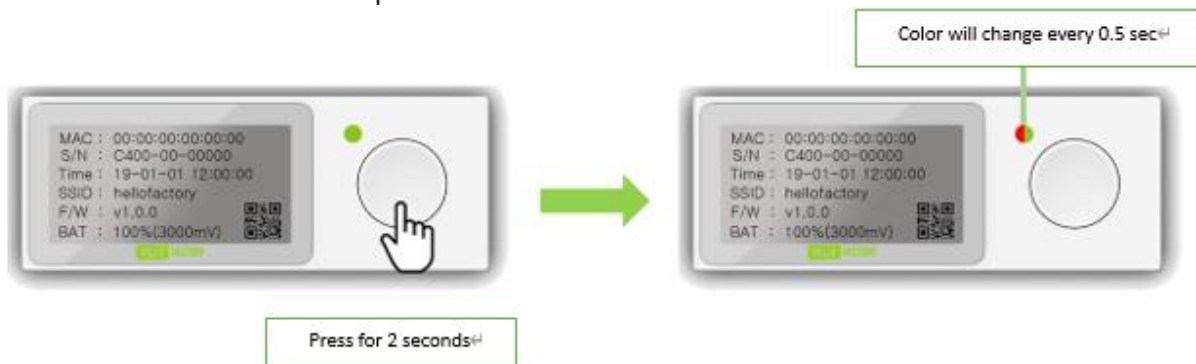
- If no action is taken for 30 seconds, the screen will return to the normal mode.

2) WiFi Setting Mode

LED will flash every 0.5 seconds
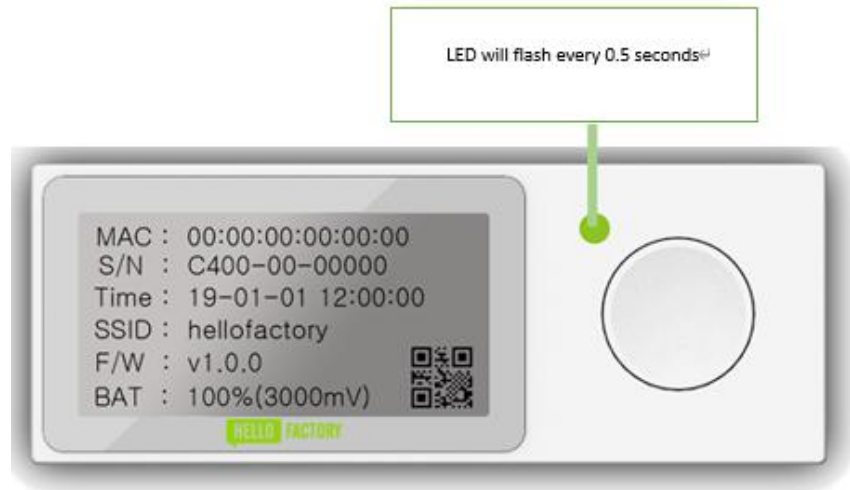
- The Green LED will flash every 0.5 seconds while entering.

- When the button is pressed for more than 2 seconds:

Color will change every 0.5 sec

Press for 2 seconds

(1) The green and red LEDs will flash alternately.

Color will change every 0.5 sec

Signal will be sent via mobile phone to Wi-Fi setting App.
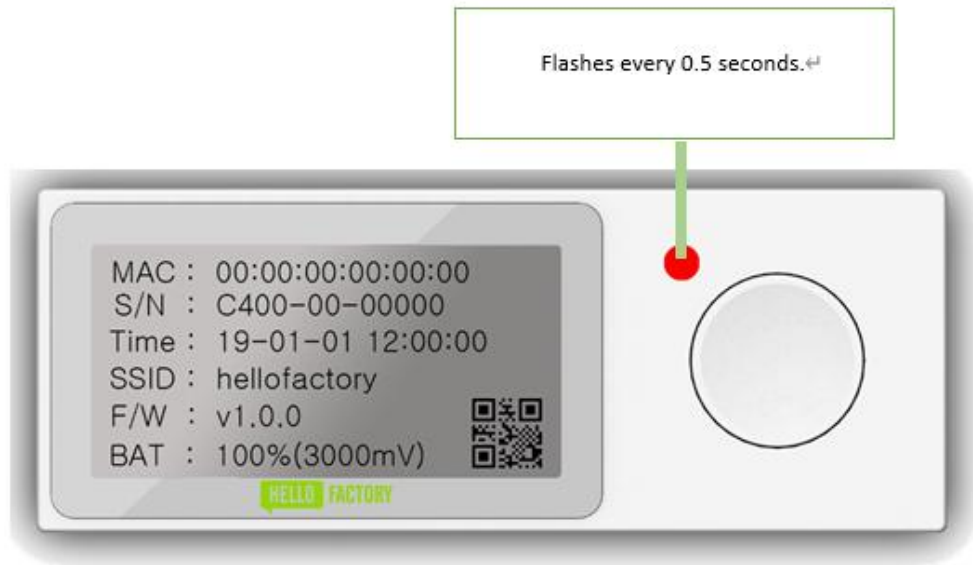
Failure

Success: SSID will change to the SSID set by the App.

(2) Scan the Bluetooth signal while LED is blinking.
(3) The mobile phone will send signals to the C400 WiFi setting App.
(4) Upon successful WiFi connection, the SSID of the e-paper will be changed to the SSID set in the setting app, and the Green LED will turn on for 2 seconds and then return to the WiFi setting mode.
(5) If the WiFi connection fails, the Red LED illuminates for 2 seconds and returns to WiFi setting mode.
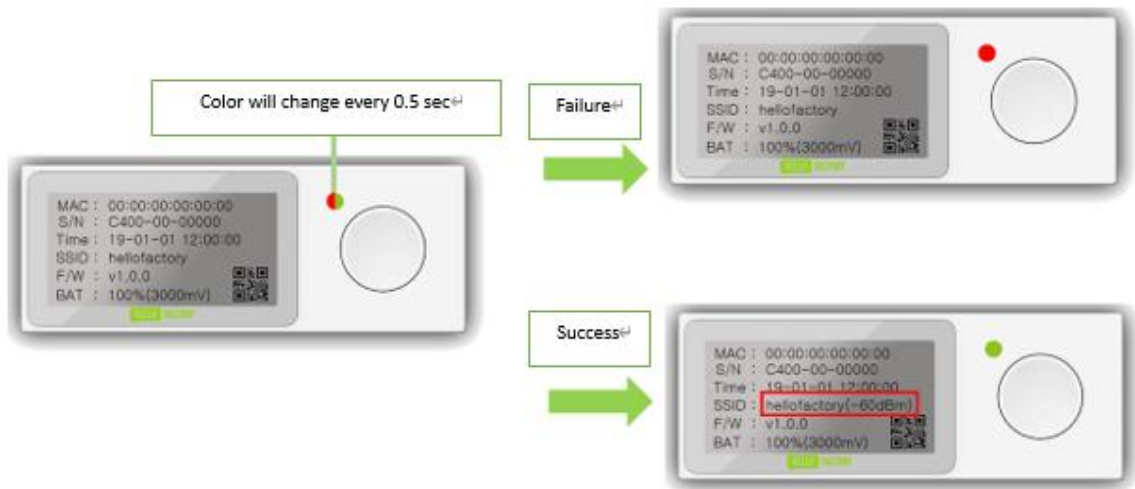

Press briefly once

Setting value update mode

- Press the button once briefly to enter the setting value update mode.

3) Setting value update mode.

Flashes every 0.5 seconds.

```
MAC : 00:00:00:00:00:00
S/N : C400-00-00000
Time : 19-01-01 12:00:00
SSID : hellofactory
F/W : v1.0.0
BAT : 100%(3000mV)
```

- The red LED blinks every 0.5 seconds while entering.

- When the button is pressed for more than 2 seconds:

Color will change every 0.5 sec

Press for 2 seconds

(1) The Green and Red LEDs blink alternately.
(2) While the LED is blinking, try to connect to the server and get the settings registered.

Color will change every 0.5 sec

Failure

MAC : 00:00:00:00:00:00
S/N : C400-00-00000
Time : 19-01-01 12:00:00
SSID : hellofactory
F/W : v1.0.0
BAT : 100%(3000mV)

MAC : 00:00:00:00:00:00
S/N : C400-00-00000
Time : 19-01-01 12:00:00
SSID : hellofactory
F/W : v1.0.0
BAT : 100%(3000mV)

Success

MAC : 00:00:00:00:00:00
S/N : C400-00-00000
Time : 19-01-01 12:00:00
SSID : hellofactory(-60dBm)
F/W : v1.0.0
BAT : 100%(3000mV)

(3) Upon the successful connection to the server, the WiFi App's signal strength will be displayed next to the SSID on the e-paper. The Green LED will turn on for 2 seconds and then the screen will return to the setting value update mode.

(4) If the server connection fails, red LED will turn on for 2 seconds and then the screen will return to the setting value update mode. If the C400 is not connected to WiFi, the server connection will fail.

Color will change every 0.5 sec

MAC : 00:00:00:00:00:00
S/N : C400-00-00000
Time : 19-01-01 12:00:00
SSID : hellofactory
F/W : v1.0.0
BAT : 100%(3000mV)

MAC : 00:00:00:00:00:00
S/N : C400-00-00000
Time : 19-01-01 12:00:00
SSID : hellofactory
F/W : v1.0.0
BAT : 100%(3000mV)

Press briefly once
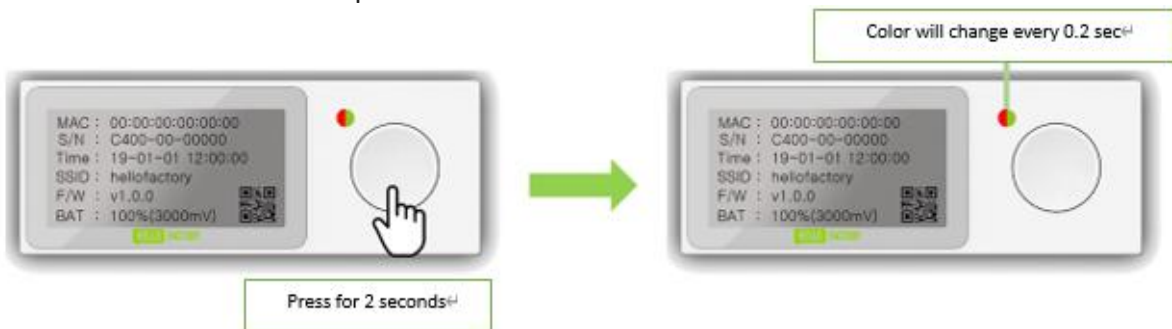
Bluetooth connection mode
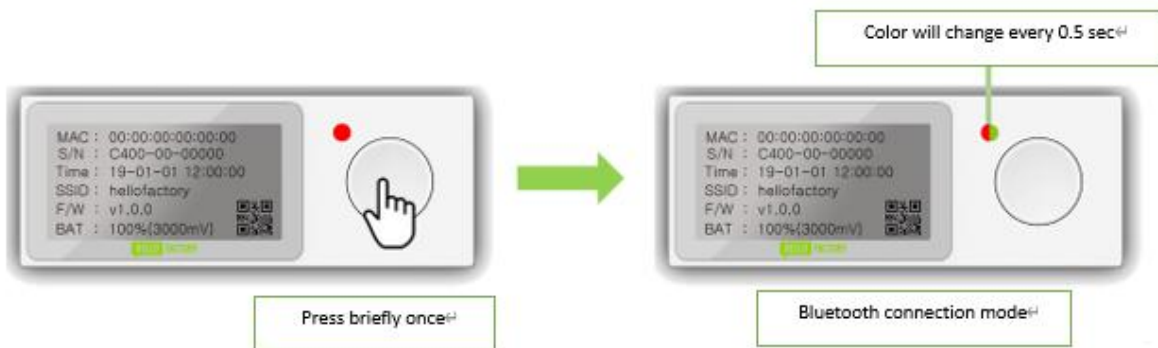
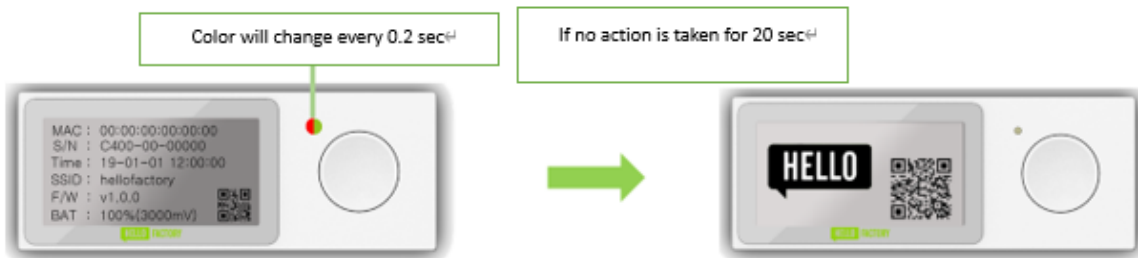- To enter the Bluetooth connection mode, press the button briefly once.

4) Bluetooth connection mode.
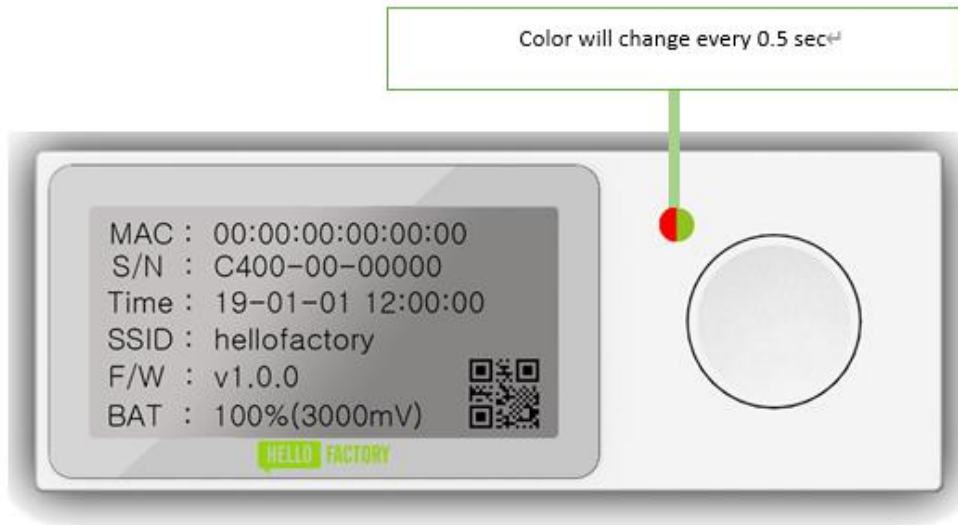
- The green and red LEDs will flash alternately while entering.

- When the button is pressed for more than 2 seconds:

(1) The green and red LEDs will blink quickly.
(2) Try to make the Bluetooth connection while the LED is blinking.

(3) If no action is taken for about 20 seconds, the screen will return to the normal mode.

Send #OTAC command via NrF Toolbox App

Color will change every 0.2 sec

LED turns off

(4) While sending a ## OTAC command through the Nrf Toolbox App the LED on the C400 will turn off, meaning that the firmware is ready to be updated.
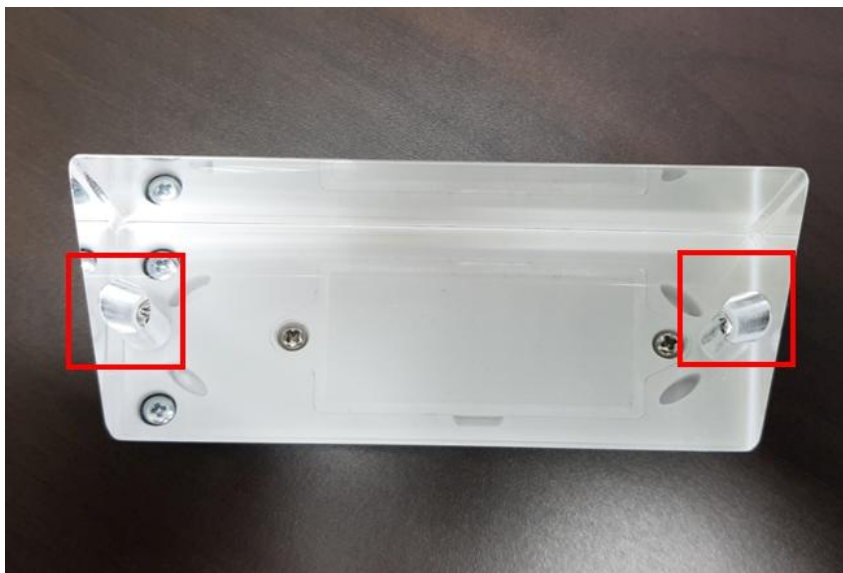
Firmware update is completed

(5) When the firmware update is completed, the screen will return to the normal mode.

Color will change every 0.5 sec

Press briefly once

Wi-Fi setting mode
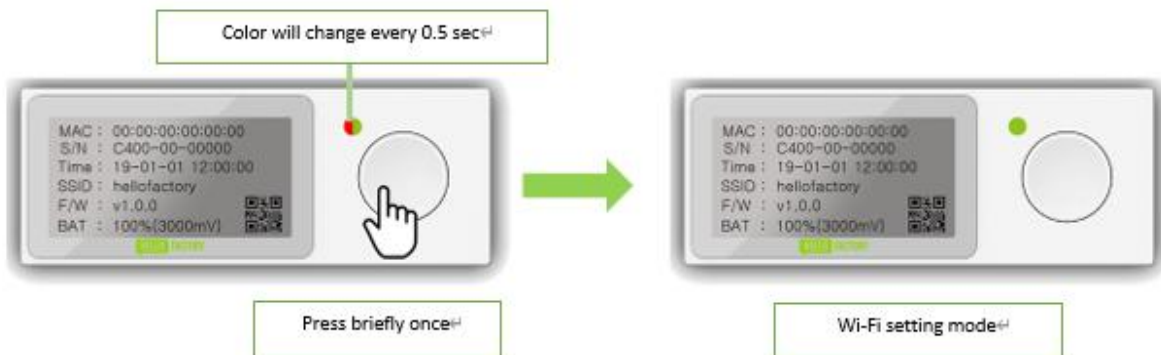
- To enter the WiFi mode, press the button briefly once.

Installation/Replacement (Battery & Stand) Guide

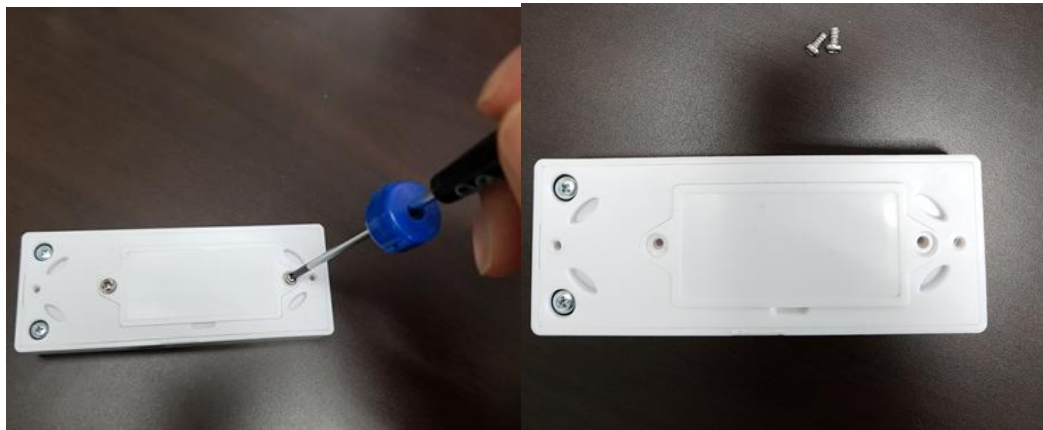1) Check the location of the screws at the bottom of the stand.
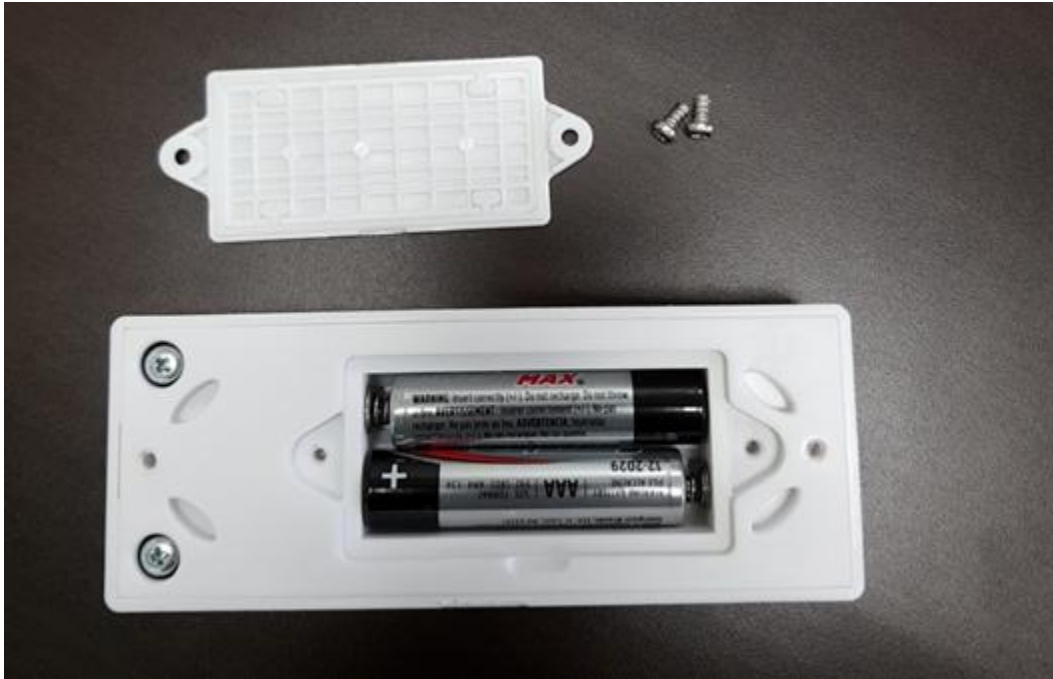

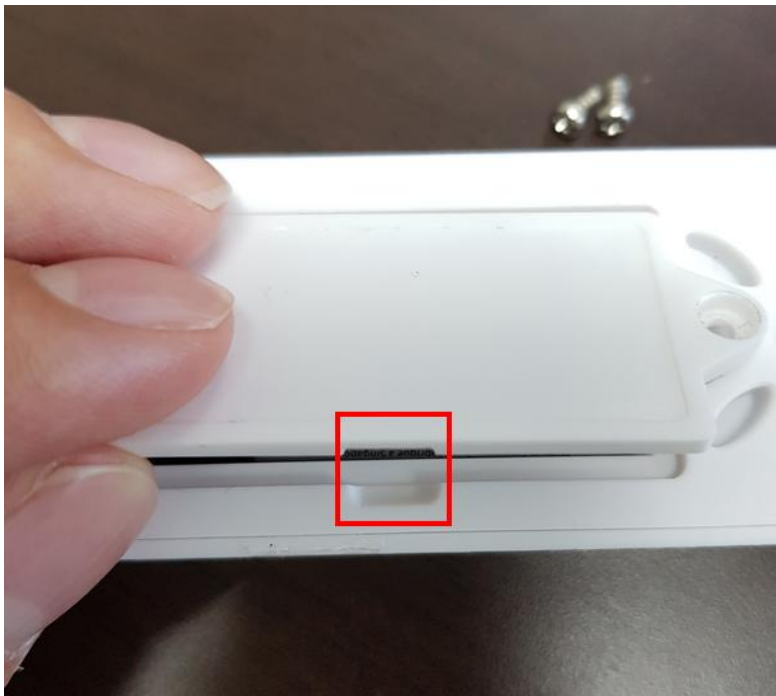2) Remove the screws with the screwdriver.

3) Remove the stand.

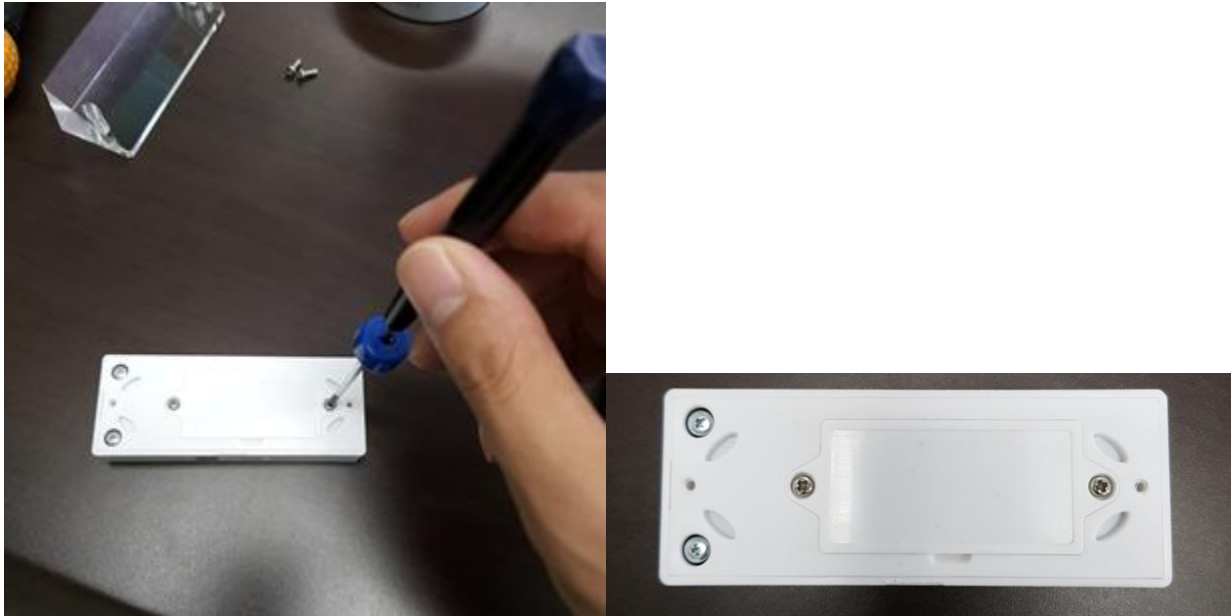4) Remove the screws of the battery compartment lid with a screwdriver.

5) Open the lid by placing your finger in it's groove. After that, replace the two AAA batteries.

6) Align the cover with the groove.

7) Align the screws with the screw grooves and assemble them with a screwdriver.
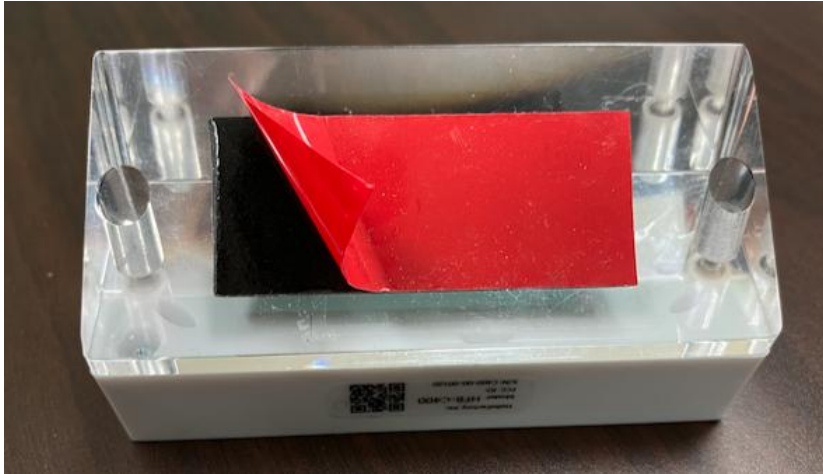

8) Align the thin side of the stand toward the battery's compartment lid. Then align the screw holes with the holes in the stand and assemble two long screws with a screwdriver.

9)After installing its battery and the Stand,

 A) Place provided double side pressure sensitive tape on the back of the stand. When ready to fix it on a table, peel off red protective layer.

B) Ensure to fix the device more than 20cm from the human body for safety. When you found desirable spot for install, clean the spot with damp cloth and press firmly on a table to ensure adhesive on the tape to be fixed on the table surface.

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

HELLO FACTORY

www.hellofactory.co.kr