# MyBeacon® Pro（MB004）

# User Manual Edition 1.3.4

MyBeacon® Pro（MB004）is a high-end beacon which is equipped with Bluetooth® （Bluetooth Low Energy）communication module and the feature to prevent unauthorized access or spoofing by using electronic authentication.

## Before You Start

Please prepare 2 AA batteries (Alkaline or NiMH). They do not come with your product package.

## How to Use

Open the beacon case and insert batteries by following the + and - signs on the case. After the batteries are inserted, the LED on the beacon will start to blink slowly and radio signals will be transmitted. When the LED starts to blink means the remaining battery level gets low and battery replacement is required. Please refer "Status LED" section below to understand the meanings of LED blinking patterns.

### How to open the Case

Turn the bottom side of the beacon up, you will see a thin groove between the case body and the back cover. Please insert a coin or key here and then turn it to open. You could cover the groove by some cloth to prevent damaging the plastic when opening the case.

Hint: Since there are latches on both sides of the groove, it would be easier to open if you start opening by releasing from both ends first.



The bottom side

The groove to open the case

### How to close the Case

Push the back cover back to the enclosure (please pay attention to the direction) until you hear the "Clap" sound.

## Beacon transmission data

The factory default values of the radio signals being transmitted by the beacon are as follows.

| Settings | Initial values |
|---|---|
| Measured Power | -63 dBm |
| output power | 0 dBm |

Following are the factory default values for testing operational functions. Please use the configuration app to change the settings of the beacon based on your use case.

| Settings | Temporary values |
|---|---|
| Proximity UUID | B0FC4601-14A6-43A1-ABCD-CB9CFDDB4013 |
| Major | Random value （any number between 1～65535） |
| Minor | Random value （any number between 1～65535） |

## Status LED

The status of the beacon could be confirmed by checking the LED in the center of the beacon. The

illumination patterns are as follows.

| Status | Patterns |
|---|---|
| Data Transmitting | Slow blinking (approx. once every 5 seconds) |
| App Connected | ON |
| Low Battery | Blinking |

## Product Specifications

| Specification | Values |
|---|---|
| Bluetooth Version | Bluetooth® 4.1 low energy technology |
| LED | 1 |
| Operating Environment (*1) | Temperature -10 ~ 60℃, Humidity 20 ~ 80% (no condensation) |
| Storage Temperature | -10 ~ 60℃ (without batteries) |
| Power Supply | AA batteries x2 |
| External size（W×D×H） | 27.5mm |
| Weight | Approx. 50g (without batteries) |

*1 The above are specs for the beacon itself without batteries. Please double check the specs of the batteries you intend to use.

## Observance of laws and regulations

| Category | Country | Standard |
|---|---|---|
| Radio | Japan | Radio equipments listed in item (19) of paragraph 1 of article 2 of the technical standards conformity certification laws. Certification number: 007-AB0143 |
| | USA | FCC CRF Title47 Part15 Subpart C FCC ID : O8CJM1L2S |

(As of Feb 2018)

**FCC/IC Notice**

This device complies with Part 15 of FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

Le présent appareil est conforme aux la partie 15 des règles de la FCC et CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:  (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**FCC Caution**

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

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

**Radio Frequency Exposure Compliance**

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l'exposition maximale autorisée. Cependant, cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps (à l'exception des extrémités : mains, poignets, pieds et chevilles).

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