MBS02 Location Beacon

# Datasheet



### **Product Overview**

MBS02, Location Beacon, is designed by Minew mainly for indoor information pushing, route guiding and clock-in management. It has superior RF performance built with Bluetooth® LE 5.0 chip. Also, it can achieve 6.5 years using time due to its large capacity battery and replaceable design. This device is strongly suitable for deploying in scenarios like Indoor building, hospital, retailing and shopping malls because of its industry design.

### **Product Features**

6.5 Years Battery Life150 m Broadcast RangeIP67 Waterproof & DustproofSuperior RF Performance

# Multiple Deployment Options

Note: The average power consumption of this product is 36% lower than similar products in the market.

# **Application Scenarios**

Indoor Navigation

Precise Marketing Promotion

**Clock-in Management** 

### **Product Parameters**

## **Basic Parameters**

Material	ABS+PC	
Color	White	
Size	Φ55.6*23.1 mm	
Weight	40.9 g	
Battery Capacity	2400 mAh	
Battery Life	6.5 years (default setting)	
Protection	IP67	
Button	Yes	
Sensor	Accelerometer supported	
LED	Blue/Red light	
ΟΤΑ	Yes	

Configuration App	BeaconSET+
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# **Technique Parameters**

Chip	nRF52 series	
Bluetooth Protocol Supported	Bluetooth® LE 5.0	
Broadcast Interval	100 ms - 5000 ms	
Broadcast Range	150 m (open area)	
Working Temperature Range	-20 ℃ ~ 60℃	
Working Humidity Range	0 - 95 %RH, non-condensing	
Security	Supports changing passwords, anti-maliciou connection	

# **Broadcast Parameters**

Туре	Item	Default Setting
iBeacon	UUID (16 bytes)	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (Proximity)
(On)		
	Major (2 bytes)	0
	Minor (2 bytes)	0
	Measured Power	-59dBm
	Tx Power	OdBm
	Interval(ms)	900ms

UID	NameSpace	00112233445566778899
(On)	Instance	random
	Measured Power	-59dBm
	Tx Power	OdBm
	Interval(ms)	900ms
URL	Link	https://www.minew.com/
(On)	Measured Power	-24dBm
	Tx Power	OdBm
	Interval(ms)	2000ms
TLM	Tx Power	-24dBm
(On)	Interval(ms)	2000ms
INFO	Device name	MBS02
(On)	Measured Power	-24dBm
	Tx Power	OdBm
	Interval(ms)	2000ms

### Compatibilities

Supported systems	Supported models	
iOS 7.0 and above	iPhone6 /6 Plus /6S/ 6S Plus /7 /7 Plus /8 /8 Plus /x /xr /xs /xs max /SE /SE2 /11 /11 pro /11 pro max.	
Android 4.3 and above	Samsung, Xiaomi, Google Pixel, Honor, OnePlus OPPO, VIVO, Huawei, etc.	

### **Device Operations**

Power-on/off

Power-on: press the button in the middle of the device for 3.6 seconds until the

blue light on.

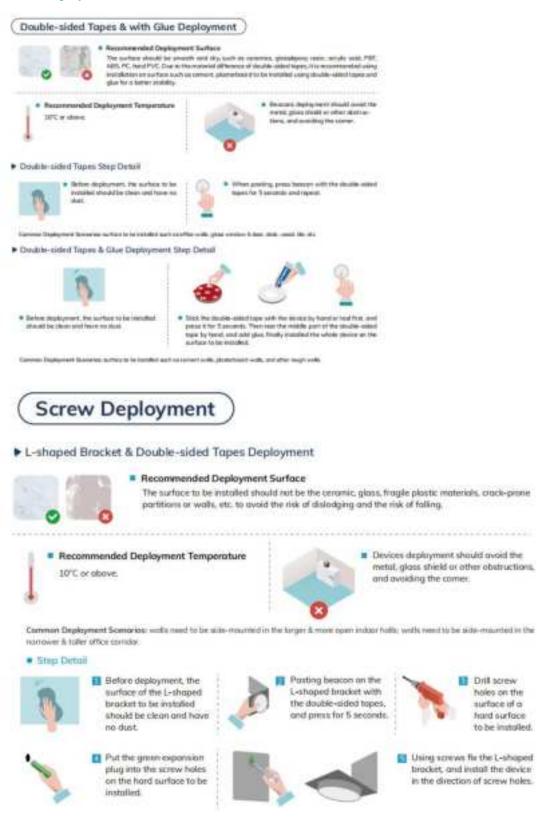
Power-off: the standard one can only be turned off by BeaconSET + App. The blue

light will flash 5 times when the device is off.

Low Battery Reminding:

The red light will flash one time every 5 seconds when the battery is low.

#### **Device Deployment**



#### **Precautions**

1. It is recommended to set lower transmitting power and longer broadcast intervals to achieve a longer service

life.

2. It is not recommended to using the device in a highly humid environment for long time even though it has a certain water performance.

3. Avoid being exposed to direct sunlight for an extended period to mitigate shell aging risk.

4. Do not use the product over the recommended working temperature to avoid damage. It is recommended that to store the product in a normal temperature environment ( $20^{\circ}C \sim 30^{\circ}C$ ) when not use.

5. Minew will not be responsible for any damage or injury caused by disassembling the main casing without appropriate operations.

6. If you have any other questions, please contact our sales team or technical support team.

#### Certifications

### **CE/FCC**

\*The certification code can be provided if needed, please contact our sales team or

technical support team for relevant information.

### **FCC** warning

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

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

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 i n a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not install ed and used in accordance with the instructions, may cause harmful interference to radio communications. Howeve r, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause har mful interference to radio or television reception, which can be determined by turning the equipment off and on, th e 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated wit h minimum distance between 20cm the radiator your body: Use only the supplied antenna.

Basic Information	Inner carton(battery	Outer carton(battery
	included)	included)
Picture		anna anna
Quantity	15 pcs	150 pcs
Size	305*110*72 mm	32*23.5*40 cm
Gross weight	693 g	7.4 kg

#### **Packaging Information**

Note: the weight of bracket is excluded.

#### **Quality Assurance**

The factory has already obtained the certification of ISO9001 Quality System. Each product has been strictly tested (tests include transmission power, sensitivity, power consumption, stability, aging, etc.). Warranty Period: 12 months from the date of shipping (battery and other accessories excluded).

#### **Declarations**

#### **Statement of Rights:**

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#### **Disclaimer:**

Minew team reserves the right to the final explanation of the document and product differences. The Minew group is not responsible for liability of property or personal injury with the wrong operation if users develop related products without checking the technical specifications of this manual.

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