博联科技
BeeLinker Technology

Energy Efficiency Label

Product Brochure

BLM7100

Suzhou Beelinker Technology Co,.Ltd

MODEL NO/DESCRIPTION

Product Name	Energy Efficiency Label
Product Mode	BLM7100
Version	1.0
Release Date	2024.1

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1.Product Description

Suzhou Bohlian Technology independently developed a non-invasive intelligent terminal product based on the magnetic field induction principle applied to the Internet of Things equipment energy efficiency monitoring, with energy consumption value detection, operation status judgement, mobile positioning, a key to report repair, tamper-proof monitoring and other functional characteristics. Nordic nRF52 series low-power Bluetooth chip is selected, adopting low-power Bluetooth BLE 5.0 technology, conforming to the iBeacon protocol specification, with high security and reliability, and supporting the setting of user connection secret key. Using the magnetic field induction principle, it can accurately detect the energy consumption data value, so as to judge the operation status of the equipment. The product is made of rectangular plastic shell, which is delicate and beautiful; it adopts snap design, which is convenient to replace the battery. With the company's Bluetooth gateway and indoor positioning technology, it can be used in a variety of energy-efficiency testing application scenarios.

Product front view

Product reverse view

2.Product Features

★ Supports energy consumption data collection, and accurately determines the operating status of equipment;

★ Support mobile positioning, one-key repair report, and battery level display;

★ Supports modification of terminal operating parameters such as: broadcast interval, energy efficiency value collection interval, etc;

★ Easy battery replacement.

3.Application

It can be used for instrument and equipment management in hospitals, helping hospital managers to quickly locate equipment and improve equipment utilisation. In the field of industrial production and manufacturing, it can be used to monitor the working status and operating efficiency of equipment, helping to improve production efficiency.

4.Physical properties

Model	**BLM7100**
Water & Dust Protection	**/**
Shell material	**ABS**
Shell color	**White**
Overall dimensions	**64.7mm×49.7mm×22.4mm(L×W×H)**
Weight	**52.78g(With Battery)**
Battery	**2600mAh ER14505**
Supply voltage	**DC 3.6V**
Installation	**3M adhesive**

5.Specification parameters

designation	parametric
Bluetooth parameters	**Protocol Stack Version: Bluetooth LE 5.0** **Operating Mode: SCAN + Advertising** **Modulation: GFSK** **RX Sensitivity: -96dbm** **Spectrum range: 2402MHz~2480MHz**
Peak Transmit Current Typical (@0dBm)	**6.0mA**
Sleep Current	**8.4uA**
Shutdown Current	**1.5uA**
Battery life	**2 years (typical configuration: 0 dBm, 1s EM sampling interval, 20 minutes of exercise per day)**
Bluetooth scanning range	**50 metres (unobstructed)**
anti-tampering	**adjuvant**
button or key (on a device)	**Maintenance Alarm, Switch On/Off**
LED	**APP control: green light blinking** **Maintenance Alarm: Red light blinking** **Low battery alarm: blue light blinking** **Switch off prompt: red light on for 3s** **Power on prompt: blue light on 3s** **Installation completion prompt: green light on 2s**
broadcast interval	**300ms ~ 50s available**
motion detection	**adjuvant**

Operation Temperature	**-20℃ ~ +65℃**
Operating humidity	**<=90% RH**

6.Certification

7.Package

Package	Outer case (with battery)
Packing	
Quantity	100pcs
Gross	5.6kg
Size	290*170*190mm

8.Quality Assurance

The factory is certified to ISO9001. Every sample will be verified (Transmit power, power consumption, reliable test) before shipping.

9.Contact Us

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FCC Caution:

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.

Any 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.