

General Overview

Product name	Bee Label
Model name	BL 100
Dimensions	101 mm × 177 mm × 0.8 mm
	4 in × 7 in × 0.3 in
Weight	34 g
	1.2 oz
Housing	Paper label
Available information	Temperature, Motion, Shock data and events, LTE-I/2G, GPS, Battery and system statu
Ingression protection rating	IP54
Flight detection	Yes
(U)SIM Interface	eSIM Card

Temperature Calibration

Calibration points	-30 ± 1.0°C	+5 ± 0.5°C	+65 ± 1.0°C
Calibration certificate	Available upon request		

Technical data

Battery type	Non Rechargeable Li-MnO2 1800 mAh. Lithium content 0.62g.
Battery life	Device transmits data for 10 to 50 days on a single charge, depending on cloud reporting interval, as detailed on page 2.
LEDs	1 Power LED
Charging	Non rechargeable
Storage Capacity	10000 messages
Cellular network type	4G (LTE-I) and GSM
Cellular coverage	Global
Cellular Antenna	Internal
GNSS Antenna	Internal, GPS/ GLONASS/ BDS/ Galileo QZSS

Measurement Data

Measurement Interval Sampling rate	6 minutes (Minimum)
Data Reporting	The device needs to wake up and establish a connection to upload measurement data to the Roambee HC Cloud.
Wake-up schedule	Adjustable from 6min to 24h frequency. The device wakes up when an excursion triggers an alarm, regardless of the schedule.
Gravity Measurement Range Logs SHK: Yes	±2g/±4g/±8g/±16g
ODR Bandwidth for Accelerometer	1 Hz ~ 400Hz
Temperature range Logs Temperature: Yes Cloud connection: Can be established. Battery life: Normal	-30°C to +70°C
Humidity Range Logs Humidity: Yes Battery life: Normal	0 to 99% RH
Absolute Accuracy	3-Point NIST Calibration
Ambient and Tamper range Illuminance Range: 1 to 100 Lux	1-100 LUX adjustable levels

Certifications

Approvals	CE, FCC, IC, NOM, KC
Aviation compliance	IATA, FAA and EASA

Battery type

The device is powered by a non rechargeable Li-MnO2 battery, 1800mAh. Li-MnO2 batteries are not considered dangerous goods when shipped with the device.

Battery life

A fully charged device on a 1-hour wake-up interval can be expected to upload data and report alarms for at least 30 days while monitoring an active shipment within the operating sensor ranges.

The device enters hibernation mode when the battery level reaches 10% or less, at which stage it stops attempting to connect to the Roambee cloud.

The battery life depends on the set wake-up interval, as shown in the table below.

Wake-up interval	Battery life
15 mins	15 days
30 mins	30 days
1 hours	60 days
6 hours	>60 days



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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.