



USER MANUAL

YOOBEE WRIST TRACKER

yB-010050-WT

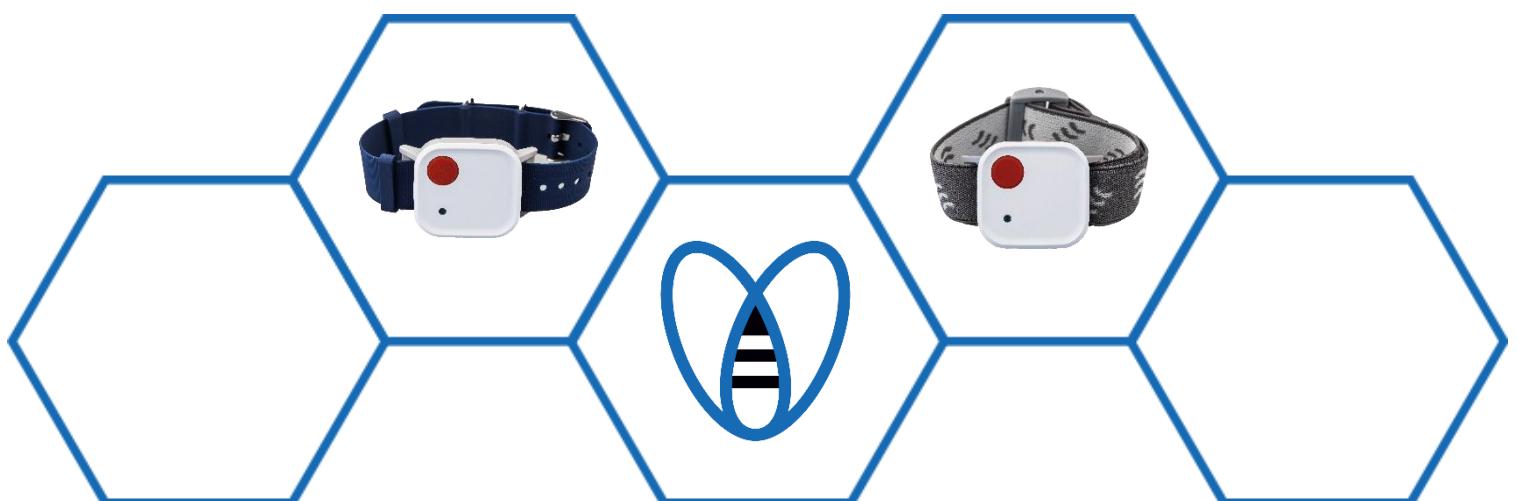


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1. General information

yooBee Wrist Trackers are used to track the position of people with an accuracy of up to 1-2 meter. The yooBee Wrist Tracker is a small, lightweight and water resistant device that is worn on a wrist. It is powered with a replaceable coin cell battery that offers approximately two years lifetime with a position update once per second, assuming 8 hours of activity per day.

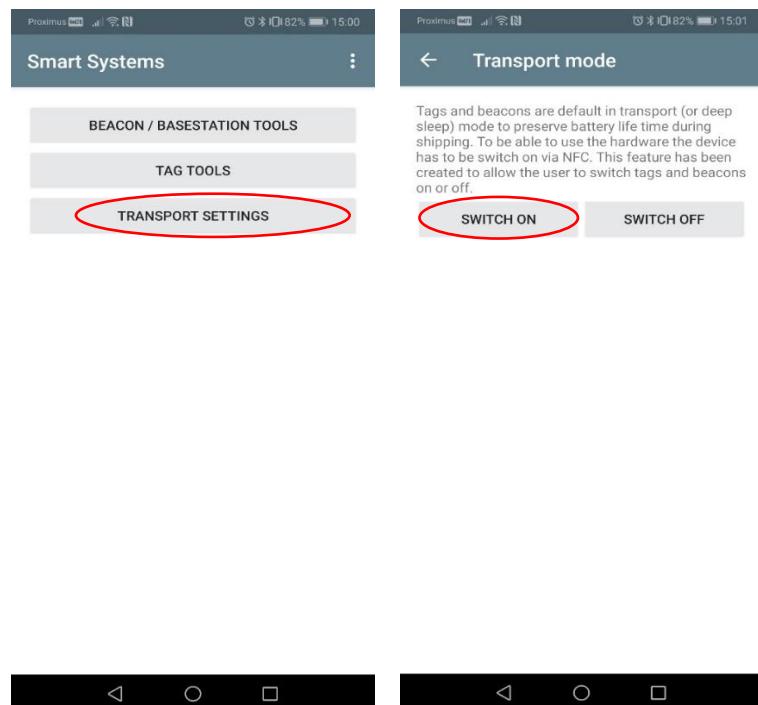
The yooBee Wrist Tracker features:

- NFC for identification or access control purposes. Custom RFID tags can be added on demand.
- Push button to signal events, such as a call for assistance
- Multicolor LED for troubleshooting
- Inertial sensors: Accelerometer, magnetometer
- Barometric pressure sensor (optional)
- Wear detection (optional)

yooBee Trackers are remotely managed through the cloud console for configuration, over-the-air updates, battery status monitoring and event logging.

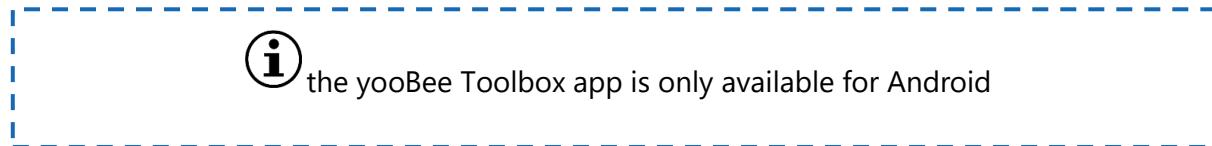
2. Getting started

yooBee Trackers are by default in "Transport mode", which is a deep sleep mode to preserve battery life time during shipping. Before using the tracker, the device must be switched ON via NFC by means of the yooBee Toolbox smartphone app.



To switch on the device, tap the "SWITCH ON" button and hold the device close the NFC antenna of your smartphone.

The yooBee Toolbox app can be downloaded from the "Admin" section on the Cloud Console. Log into the Cloud Console from your smartphone, click on the "Admin" tab and select the Account sub-tab. When clicking on "Download Tools App" link, *.apk files are downloaded on your smartphone to install the yooBee Toolbox app.



https://api.blooloc.com/admin

BLOOLOC Cloud Console Positioning Venues Devices Admin Documentation & News

ivo.vandeweerd@telenet.be Logout

Account License Access Tokens Affiliations Users Venue profiles Mobile profiles System

Account information

Name: Ivo Vandeweerd
Company name: Particon

Download Tools App **Download Tools App** (highlighted with a red oval)

Download Demo App [Download Positioning Demo App](#)

Save

Before the device can be tracked, it has to be properly configured in the yooBee Cloud Console. This can be done by means of the yooBee Toolbox app or directly in the Cloud Console (see the yooBee Cloud Console User Manual).

Smart Systems

BEACON / BASESTATION TOOLS

TAG TOOLS (highlighted with a red oval)

TRANSPORT SETTINGS

Tag Tools

SCAN TAG (highlighted with a red oval)

Operational

Affiliation: Smart Systems

ID: 42650

Type: tag

Assignee name

Device ID: fe:10:18:92:ab:39

Last seen: Thu Apr 25 07:46:05 GMT+02:00 2019

SHOW IN VENUE

EDIT TAG

Note: Switching off the operational mode is equivalent to putting the device in Transport Mode.

3. Using the device

In operational mode, the tracker is active and connected to at least one and up to three yooBee Hubs. It periodically broadcasts data from its inertial sensors, which is used in the Cloud Console to track the position of the device.

If no movement was detected in the last 15 sec, the tracker goes into a sleep mode to preserve battery life time. It is re-activated as soon as movement is detected.

In the background, the device runs protocols to establish and maintain connection with yooBee Hubs in its proximity, and to roam between them.

The yooBee Wrist Tracker has a multi-colored LED, that is used to provide feedback in case of a call-for-assistance:

LED Code	Meaning
Series of short blue blink	Firmware update
1x red after firmware update blue blinks	Firmware update failed
Red - blinking	Attempt to send button event
Green	Button event sent and acknowledged

4. Troubleshooting

In case of possible malfunction, please contact technical support to receive proper replacements (email: support@blooloc.com). Replacement policy also applies to performance faults caused by low battery before prescribed operation time.

5. Disposal of the device

yooBee Wrist Trackers contain electronic elements and batteries which should be properly disposed and compliant to local regulations.

6. Safety Instructions

Opening yooBee Wrist Trackers is strictly forbidden. Switching the original battery with one of a different type might cause a risk of explosion.

7. Technical Specifications

Technical Specification			
Dimensions	47,4 mm x 36,2 mm x 13,1 mm (wristband opening 20 mm wide)	Operational Temperature	-20°C to +60°C
Weight	22 g	Storage Temperature	-25°C to +70°C
Radio	<ul style="list-style-type: none"> NFC Forum Type 4, ISO/IEC14443 2.4 GHz BLE 0dBm TX power 	Sensor	<ul style="list-style-type: none"> Ambient temperature Inertial and magnetic field sensor Push button Barometric pressure sensor (optional) Wear detection (optional)
Power Supply	CR2032 3V replaceable lithium cell battery (expected lifetime 2 years)	Material	<ul style="list-style-type: none"> Reinforced polyamide UV-light resistant Zero outgassing
Update Rate	1 per second	Options	Wristband (not included in standard offer)
Certifications	CE, FCC, ISED		

8. Declaration of Conformity

CE Statements

This product complies with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU. The Declaration of Conformity can be found in the yooBee documentation on www.blooloc.com

FCC Statements

FCC § 15.19 Labelling requirements

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). 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.

FCC § 15.21 Information to user

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

FCC §15.105 statement

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.

RF Exposure Requirements

To comply with FCC RF exposure compliance requirements, the device must be installed to provide a separation distance of at least 20 cm from all persons.

INDUSTRY CANADA Statements

Le présent appareil est conforme aux 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.

Canada Class B statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

RF Exposure Requirements

This equipment complies with Canada 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.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.