TELTONIKA BTSID1 Sensor and Beacon Bluetooth User Manual

Contents

TELTONIKA

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INTRODUCTION

This document provides short instruction how to configure BTSID1 Beacon or BTSMP1 Senor and FM tracker. During the use if you will have any questions or suggestions for improvement please feel free to contact yours Teltonika account manager or write to technical support team over VIP helpdesk.
Wireless solutions open up new horizons for your business and help to keep an eye on your assets. Discover our brand-new and certified Bluetooth Low Energy ID beacon and sensor models from Teltonika with robust waterproof casing and a long-lifetime battery. The models designed for a low-cost fast and easy configuration and integration to save precious time, resources, and ensure accountability.

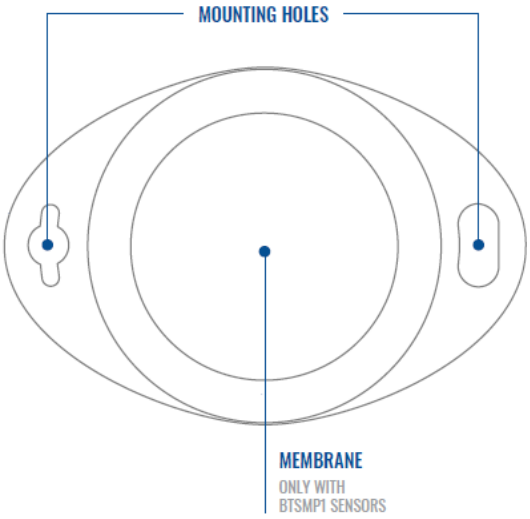
About BTSID1:

Perfect for traceability use cases, delivery tracking, monitoring of various movable objects in logistics (trailers, containers), agriculture (tractor attachments), and constructions (tools and inventory). Also, it suitable for indoor tracking solutions for items tracking in warehouses, hospitals, transport hubs and other types of industrial areas. EYE beacon supports iBeacon and Eddystone protocols. The device is fully compatible with the Teltonika firmware platform which provides extended functionality.

About BTSMP1:

Perfect for traceability use cases, delivery tracking, monitoring of various movable objects in logistics (trailers, containers), agriculture (tractor attachments), and constructions (tools and inventory). Sensors data makes it especially suitable for cold chain refrigerator use cases. The built-in accelerometer can detect item movement or fall events. Magnet detection can be used for wireless open/close detection and notifications such as trailer door events, etc. EYE sensor supports iBeacon and Eddystone protocols. The device is fully compatible with the Teltonika firmware platform which provides extended functionality.

KNOW YOUR DEVICE



What you get:

- Bluetooth BTSID1 Beacon or BTSMP1 Sensor designed for easy & fast configuration and integration.
- Quick Manual
- Mobile application for Android and iOS* phones. Configure, scan, and update anytime anywhere with a EYE APP – Teltonika

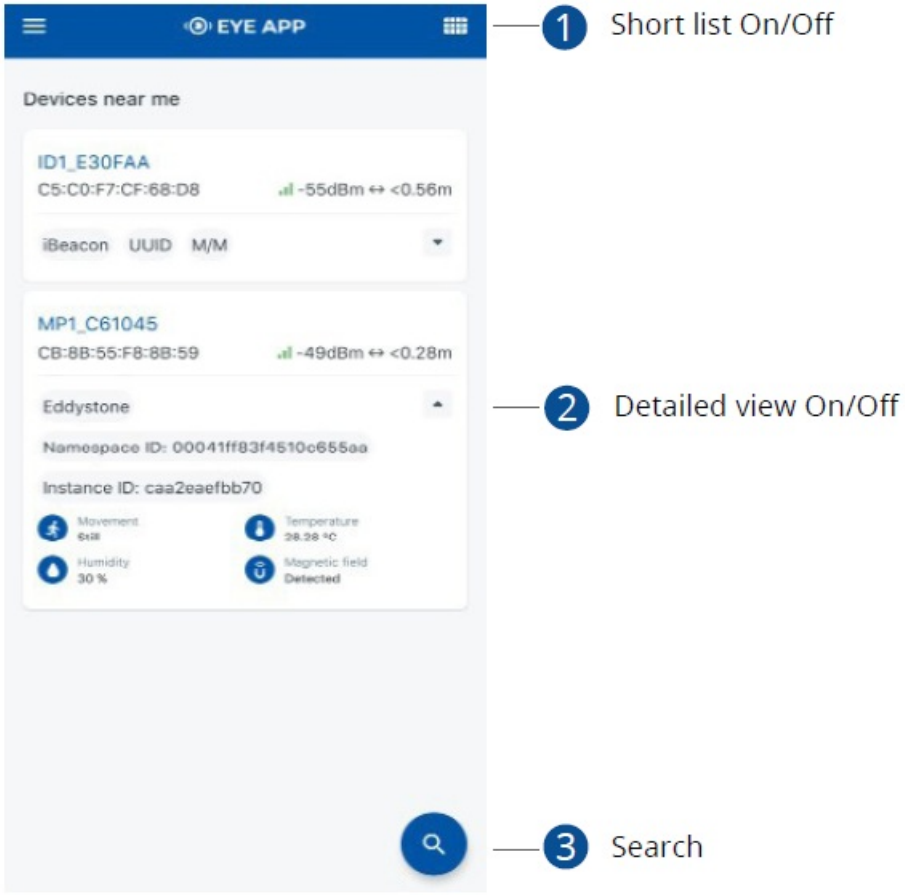
CONFIGURATION

Devices work constantly and are ready to perform out of the box. Default basic Eye Beacon and Sensor settings are set to:

- Transmitting at 2 dBm power.
- Data advertising at 3-second intervals.

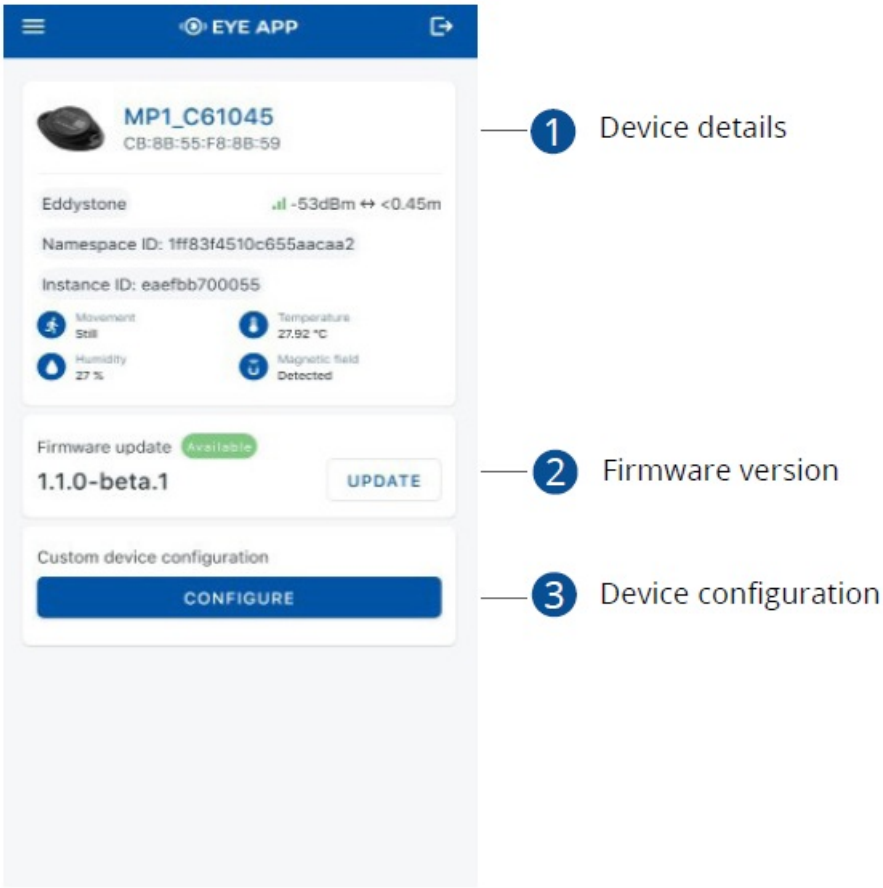
- Eddystone protocol

Devices in view:



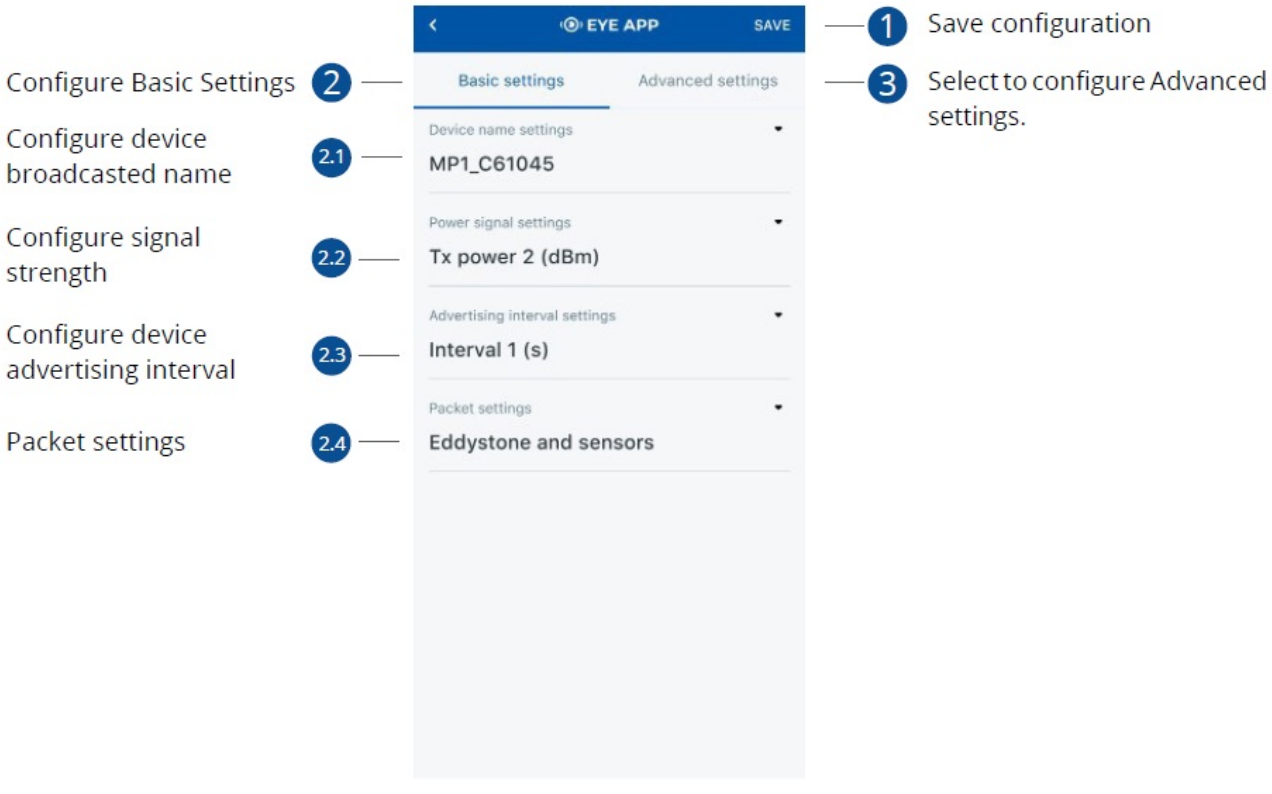
In this window, you will see all visible devices. You have options to see devices in Shortlist (1) or in the default list. When looking at devices in the default list you will be able to open Detailed view (2) of devices and check transmitted data statuses. Additionally, if you are looking for specific devices you will be able to use Search (3) function to filter search options. When in this window select a device of your choice to connect and after passing pin code you will go to the device overview window.

Overview window



In the overview window you can see device details (1), check the firmware version and update if available (2), go to device configuration settings.
If you select to Configure (3) device new window will open with Basic and Advanced settings.

Configure window

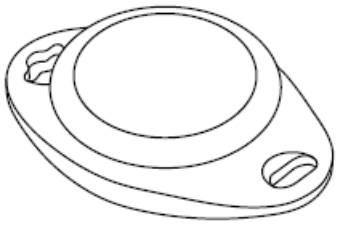


In this window, you can check and change device configuration settings. In main tab Basic Settings (1) you can

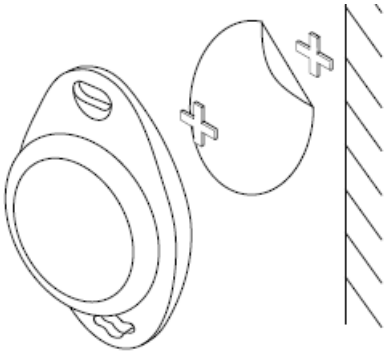
change main settings. Change Device name (2.1), Power signal strength (2.2), Advertising interval (2.3) and Packet (2.4) transmission type. For more settings go to the Advanced settings (3) tab to enable various events.

MOUNTING RECOMMENDATIONS

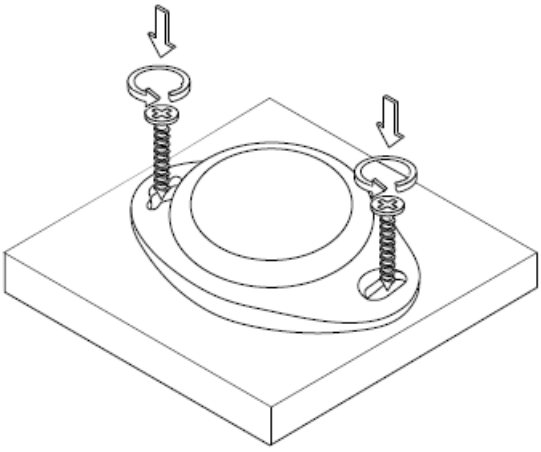
1. Placing: Directly place the monitor on a surface such as table, shelf



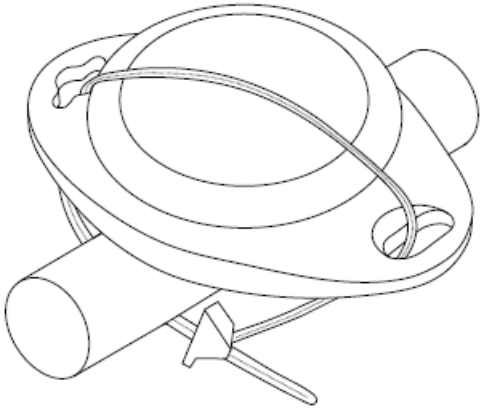
2. Using the adhesive sticker: Remove the release liner from one side of the adhesive sticker to stick it on the back of the device, then remove the release liner from the other side to stick it at the desired place on the wall



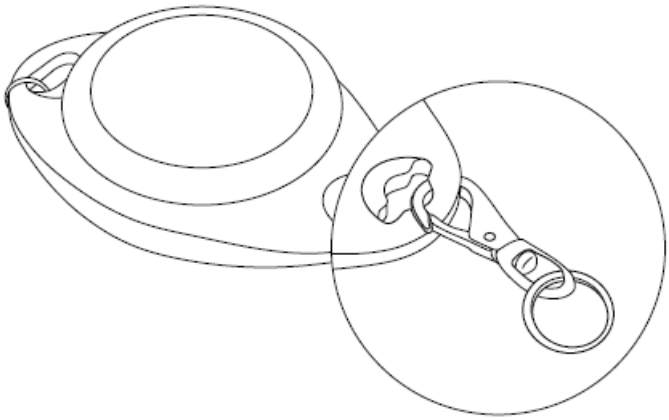
3. Using screws: Place device on the surface and secure it to the surface using two screws



4. Ziptie: Lead ziptie thru both device holes and around an object you want device secured to



5. Hanging: Attach lanyard’s snap hook to one of the holes



PRODUCT INFORMATION

Dimensions and weight

Dimensions	56,6 x 38 x 13 mm (L x W x H)
Weight	18 grams

Technical specifications:

Model	CR2450	CR2450
Type	Lithium, Manganese Dioxide (Li/MnO2)	Lithium, Manganese Dioxide (Li/MnO2)
Total Capacity	600 mAh	600 mAh
Replaceable	No	No
Battery life (Tx=2 dBm; interval: 3 s)	5+ years	2.5+ years
Battery life (Tx=2 dBm; interval: 10 s)	10+ years	5+ years
Microcontroller	ST Microelectronics BlueNRG-2	ST Microelectronics BlueNRG-2
Bluetooth	Bluetooth 4.2 compliant, Bluetooth 5.2 certified Bluetooth Operating Freaquency 2.402 - 2.480 GHz	Bluetooth 4.2 compliant, Bluetooth 5.2 certified Bluetooth Operating Freaquency 2.402 - 2.480 GHz
Range	80m	80 m
Available transmission power levels	Up to 8 dBm	Up to 8 dBm

Sensitivity	-88 dBm	-88 dBm
Material	Plastic	Plastic
Colors	Black	Black
Protection	IP67	IP67
Mounting	Two holes to screw/ leash/strip, tape	Two holes to screw/ leash/strip, tape
Customization	Custom logo upon request* * Special conditions	Custom logo upon request* * Special conditions
Operational temperature	-20°C / +60°C (-4°F / +140°F) *Possible to have -40°C / + 85°C (-40°F / +185°F)	-20°C / +60°C (-4°F / +140°F) *Possible to have -40°C / + 85°C (-40°F / +185°F)
Certificates	CE RED (EU) FCC (USA) UKCA (UK) RoHS E-mark EAC ANATEL	CE RED (EU) FCC (USA) UKCA (UK) RoHS E-mark EN12830 EAC ANATEL
Humidity (non-condensing)	From 0% to 100%	From 0% to 100%
Accuracy		±1.8 (typ.) @30-70% RH ±2 (typ.) @0-30% RH and @70-100% ±3.5 (max.) @30-70% RH ±4 (max.) @0-30% RH and @70-100% ±0.2 (typ.) @0-60°C ±0.4 (typ.) @-20-0°C ±0.4 (max.) @0-60°C ±0.7 (max) @-20-0°C
Relative humidity measuring range		0 – 100 %RH
Temperature measuring range		-20 to +60°C

*Possible to have -40°C / + 85°C (-40°F / +185°F)

CERTIFICATION

15C 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. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. (15B)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 device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
- The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter and must be installed to provide a separation distance of at least 20cm from all persons.

SAFETY INFORMATION

This message contains information on how to operate BTSID1 safely. By following these requirements and recommendations, you will avoid dangerous situations. You must read these instructions carefully and follow them strictly before operating the device.To avoid mechanical damage, it is advised to transport the device in an impact-proof package. In case of malfunction contact your Teltonika account manager or write to the technical support team over VIP helpdesk.

WARRANTY

TELTONIKA guarantees its products to be free of any manufacturing defects for a period of 24 months. With the additional agreement we can agree on a different warranty period, for more detailed information please contact our sales manager. Contact us t**eltonika-gps.com/about-us/contacts/**

Documents / Resources

	**TELTONIKA BTSID1 Sensor and Beacon Bluetooth** [pdf] User Manual BTSID1, BTSMP1, Sensor and Beacon Bluetooth

References

- **Teltonika Telematics**
- **Teltonika Telematics**