



MTSID1

MTSMP1

Wirepas beacon and sensor

Quick Manual v1.0 | 2026-05-18



CONTENTS

Safety information	3	Product information	10
Introduction.....	5	Certification and approvals	11
Know your device.....	6	Warranty	12
Deployment.....	7	Company details.....	13
MOUNTING RECOMMENDATIONS	8		



SAFETY INFORMATION

This section contains information on how to operate MTSID1 & MTSMP1 safely. By following these requirements and recommendations, you will avoid dangerous situations. You must read these instructions carefully before operating the device and follow them strictly!

- To avoid mechanical damage, it is advised to transport the device in an impact-proof package. Before usage, the device should be placed so that its LED indicators are visible. They show the status of device operation.

SIGNALS AND SYMBOLS

Warnings and cautions which are general to the use of the device under all circumstances are included in this section. Some warnings and cautions are also inserted within the manual where they are most meaningful.



CAUTION! Cautions alert users to exercise appropriate care for safe and effective use of the product.



WARNING! This classifies a hazard of medium risk level. Failure to comply with the warning may result in serious injury.



Please note: Notes provide additional guidelines or information.



All wireless data transferring devices produce interference that may affect other devices which are placed nearby.



The device must be connected only by qualified personnel.



The device must be firmly fastened in a predefined location.



Installation and/or handling during a lightning storm is prohibited.



The device is susceptible to water and humidity.



WARNING: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



Battery should not be disposed of with general household waste. Bring damaged or worn-out batteries to your local recycling center or dispose them to battery recycle bin found in stores.



This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste.

DATA SAFETY AND PRIVACY

In accordance with the General Data Protection Regulation (GDPR), this Data Processing Agreement (DPA) establishes obligations between Teltonika, the data processor, and its customers, acting as data controllers. The DPA outlines how Teltonika will handle customer data while adhering to GDPR regulations. This includes details on the data Teltonika can process, security measures in place, and customer rights concerning their data.

For a comprehensive understanding of the agreement, including permitted sub-processors, data breach procedures, and dispute resolution, please refer to the full Data Processing Agreement:

teltonika-gps.com/about-us/policies-certificates/data-processing-agreement



INTRODUCTION

This document provides short instruction how to integrate MTSID1 Beacon or MTSMP1 Sensor. During the use if you will have any questions or suggestions for improvement please feel free to contact your Teltonika account manager or write to technical support team over VIP helpdesk.

Wireless solutions open up new horizons for your business and help keep an eye on your assets. Discover certified Wirepas beacon and sensor models from Teltonika with robust water-resistant casing and a long-lifetime battery. Designed for low-cost, fast, and easy integration, these models help save valuable time and resources while ensuring accountability. They are also ideal for high-scale inventory management and indoor locating use cases, enabling reliable real-time asset tracking and efficient operations across warehouses, manufacturing sites, retail spaces, and other large indoor environments.

ABOUT MTSID1:

The Standard EYE Beacon Mesh device is designed for indoor inventory traceability and real-time monitoring of movable assets across warehouses, factories, hospitals, retail environments, and other large-scale facilities. Integrated magnet detection functionality allows wireless open/close event monitoring and notifications for applications such as door status detection, cabinet access monitoring, and other security or operational use cases. The EYE Beacon Mesh device also supports option of

iBeacon and Eddystone protocols advertising, ensuring broad compatibility and seamless integration with existing indoor positioning, asset tracking, and IoT ecosystems.

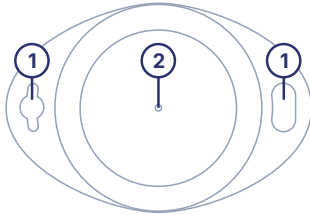
ABOUT MTSMP1:

The Standard EYE Sensor Mesh device is designed for indoor inventory traceability and real-time monitoring of movable assets across warehouses, factories, hospitals, retail environments, and other large-scale facilities. Equipped with integrated environmental sensors, it is especially well-suited for temperature monitoring and condition-tracking applications in logistics and storage operations. The built-in accelerometer enables advanced motion detection capabilities, including movement tracking, configurable reporting intervals for motion and stationary states, as well as pitch and roll monitoring for asset orientation detection. Integrated magnet detection functionality allows wireless open/close event monitoring and notifications for applications such as door status detection, cabinet access monitoring, and other security or operational use cases. The EYE Sensor Mesh device also supports option of iBeacon and Eddystone protocols advertising, ensuring broad compatibility and seamless integration with existing indoor positioning, asset tracking, and IoT ecosystems.



KNOW YOUR DEVICE

Top view



1. Mounting holes
2. Membrane (only with MTSMP1 sensors)

Side view



STANDARD PACKAGE CONTAINS

- MTSID1 Beacon Mesh or MTSMP1 Sensor Mesh designed for easy integration.
- Quick Manual



DEPLOYMENT

Standard Eye devices are hibernating to conserve power and will power only by attaching magnet:

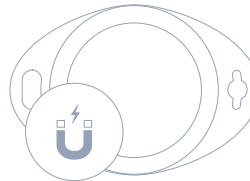
Default out of factory Eye Beacon Mesh and EYE Sensor Mesh settings are set to:

- **Network ID:** 12345678
Channel: 11
- **Device Node ID:** Device serial number
- **Authentication key:** NA
Encryption key: NA
- **Advertising interval of Eye Beacon Mesh:** 10 min
- **Advertising interval of Eye Sensor Mesh:** 1 min Moving, 15 min On stop.
- **Transmitting power** - Wirepas Mesh uses decentralized algorithms where each node continuously monitors link performance and chooses the lowest transmit power that still ensures reliable communication.

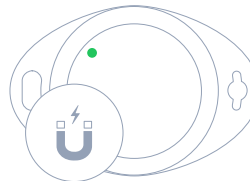
Settings can be preset by your requirements in factory or in case you want to change deployed devices settings it can be done via Mesh network only.



1. TAKE A MAGNET



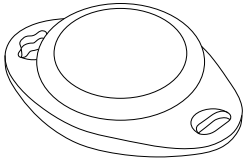
2. TOUCH EYE DEVICE



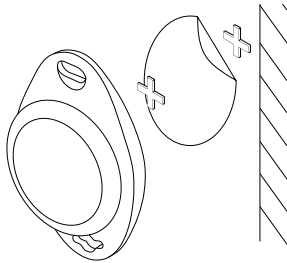
3. EYE DEVICE BLINKS GREEN - IT'S ON



MOUNTING RECOMMENDATIONS

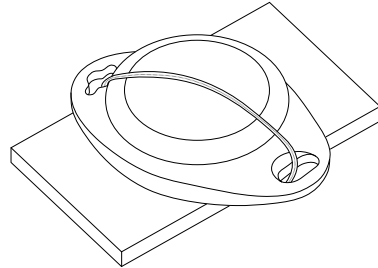


- 1** Placing: Directly place the monitor on the surface such as table, shelf

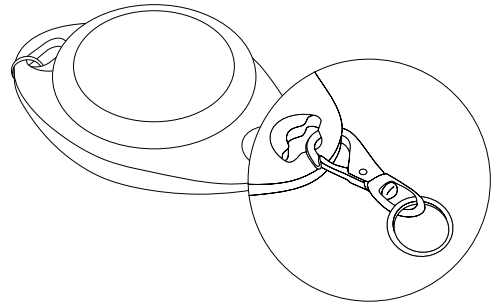


- ✗** Construction adhesive **✓** Adhesive sticker

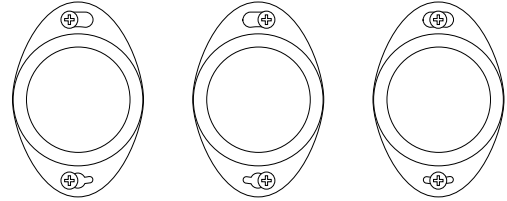
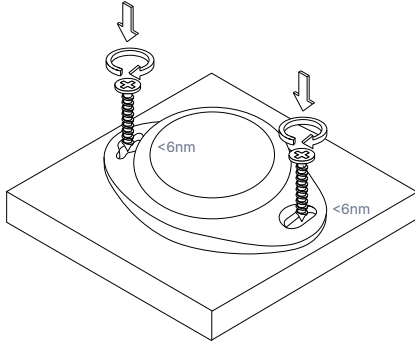
- 2** Using the adhesive sticker: Remove the release liner from one side of the adhesive sticker to stick it on the back of the device, then remove the release liner from the other side to stick it at the desired place on the wall



- 3** Zip tie: Thread a zip tie through both device holes and around the object you wish to secure the device to. Use zip ties on as flat a surface as possible, and avoid excessively pulling on the zip tie, as this could bend the casing.



- 4** Hanging: Attach lanyard's snap hook to one of the holes

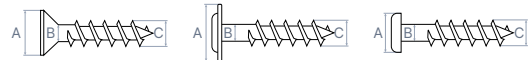


✗ Not centered

✗ Not centered

✓ Centered

- 5** Using screws: Place the device on a flat surface and secure it using two M4-M5 size screws. Ensure that the force applied when screwing does not exceed 6 Nm. Do not utilize an impact driver for this purpose. Avoid using nails or rivets for securing the device, as impact force from tools may damage the casing

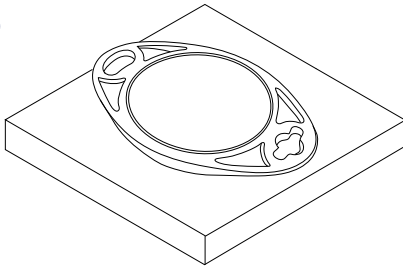


✗ Flat Head

✓ Round
Washer Head

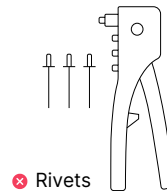
✓ Pan Head

6

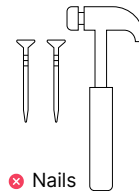


✗ Do not mount inverted with ears up

A: 7-8.5 mm
B: 4-5 mm
C: 4-5 mm



✗ Rivets



✗ Nails



Note: Adhesive sticker, screws, lanyard, zipties are not included and sold separately



PRODUCT INFORMATION

Dimensions and weight

Dimensions 56,6 × 38 × 13 mm (L x W x H)

Weight 19 grams

Technical specifications

Model CR2450

Type Lithium, Manganese Dioxide (Li/MnO₂)

Total Capacity 600 mAh

Replaceable battery No

Battery life (5 min) **Eye Beacon:** up to 2 years
Eye Sensor: up to 2 years

Battery life (10 min) **Eye Beacon:** up to 3.5 years (Default)
Eye Sensor: up to 3.5 years

Battery life (30 min) **Eye Beacon:** up to 8 years
Eye Sensor: up to 7 years

Battery life (60 min) **Eye Beacon:** up to 10 years
Eye Sensor: up to 10 years

Battery life (15 min on stop, 1 min moving) **Eye Sensor:** up to 3 years (Default)
Scenario where device moves 2 hour per day

Microcontroller Silicon Labs EFR32BG22C224F512GM32-C

Range Up to 100 m outdoors (line-of-sight)
Typically 10–20 meters indoors

Wirepas Wirepas Mesh v5.4

Available transmission power levels Up to 6 dBm

Technical specifications

Protection IP67

Mounting Two holes to screw/
leash/strip, tape

Customization Custom logo
upon request¹

Operational temperature -20°C / +60°C
(-4°F / +140°F)

Humidity (non-condensing) From 0% to 100%

Certificates CE RED (EU), RoHS, EAC, REACH EU, IP67,

Temperature measuring range **Eye Sensor:** -20 to +60°C

¹ Special conditions



CERTIFICATION AND APPROVALS



This sign on the package means that it is necessary to read the User's Manual before your start using the device. Full User's Manual version for **MTSID¹** and **MTSMP¹** can be found in our Wiki.



This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste.



Hereby, Teltonika declare under our sole responsibility that the above described product is in conformity with the relevant Community harmonization: European Directive 2014/53/EU (RED).



REACH addresses the production and use of chemical substances, and their potential impacts on both human health and the environment. Its 849 pages took seven years to pass, and it has been described as the most complex legislation in the Union's history and the most important in 20 years. It is the strictest law to date regulating chemical substances and will affect industries throughout the world.



The RoHS1 is a directive regulating the manufacture, import and distribution of Electronics and Electrical Equipment (EEE) within the EU, which bans from use 10 different hazardous materials (to date).



The standard aims to provide users more detailed information than vague marketing terms such as waterproof.



The Wirepas word mark and logos are registered trademarks owned by Wirepas. and any use of such marks by UAB Teltonika Telematics is under license. Other trademarks and trade names are those of their respective owners.

¹ wiki.teltonika-gps.com/view/EYE_BEACON_MESH/MTSID1

² wiki.teltonika-gps.com/view/EYE_SENSOR_MESH/MTSMP1



FCC

- 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.
- 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.
 - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CHECK ALL CERTIFICATES

All newest certificates for **MTSID³** and **MTSMP⁴** may be found in our Wiki.

³ wiki.teltonika-gps.com/view/EYE_BEACON_MESH/MTSID1#Certification_&Approvals

⁴ wiki.teltonika-gps.com/view/EYE_SENSOR_MESH/MTSMP1#Certification_&Approvals



WARRANTY

We guarantee our products 24-month warranty¹ period.

All batteries carry a 6-month warranty period.

Post-warranty repair service for products is not provided.

If a product stops operating within this specific warranty time, the product can be:

- Repaired
- Replaced with a new product
- Replaced with an equivalent repaired product fulfilling the same functionality
- Replaced with a different product fulfilling the same functionality in case of EOL for the original product

WARRANTY DISCLAIMER

Customers are only allowed to return products as a result of the product being defective, due to order assembly or manufacturing fault.

Products are intended to be used by personnel with training and experience.

Warranty does not cover defects or malfunctions caused by accidents, misuse, abuse, catastrophes, improper maintenance or inadequate installation – not following operating instructions (including failure to heed warnings) or use with equipment with which it is not intended to be used.

Warranty does not apply to any consequential damages.

Warranty is not applicable for supplementary product equipment (i. e. PSU, power cables, antennas) unless the accessory is defective on arrival.

[More information on what is RMA²](#)

¹Additional agreement for an extended warranty period can be agreed upon separately.

²wiki.teltonika-gps.com/view/RMA_guidelines



COMPANY DETAILS

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TELEMATICS WEBSITE
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For more information about our products and services, please visit our website: teltonika-gps.com.



WIKI KNOWLEDGE BASE
wiki.teltonika-gps.com

For technical assistance, troubleshooting, and further inquiries, refer to our comprehensive support resources at our technical assistance portal: [Teltonika Wiki](https://wiki.teltonika-gps.com).