



Safety Tag / Drive Tag

Instructions for Use

Version 1.1

Release date: 01.06.2023

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1 DELIVERY

The scope of delivery includes the telematics client Safety Tag / Drive Tag with integrated battery, as well as the warranty information.

Technical data:

Name:	Telematics client "Safety Tag / Drive Tag"
Manufacturer:	PI Labs GmbH
Dimensions:	50 mm × 47 mm × 25 mm
Weight:	27 g
Battery:	Lithium Metal (non-rechargeable) Battery
Antenna:	Bluetooth, --16dBm
Frequency:	2,4 GHz
Voltage:	3V

The device has been developed and designed in Germany.

2 PRODUCT DESCRIPTION

2.1 Features



2.2 Functionality

The Safety Tag / Drive Tag is a telematics client for capturing real-time data (trip, fraud, collision and moving pattern) in a vehicle. These data are transmitted via Bluetooth to a connected mobile device.

2.3 Data Collection and Transmission

All generated data forwarded over an encrypted connection according to the device's pre-configured setup and conforms to the latest Bluetooth security standards.

Drive data are transmitted only when the device is connected to a bonded mobile device (according to defined acceleration thresholds).

If no Bluetooth connection is present during a driving event, collected data is stored on the device and transmitted to the mobile device as soon as a stable Bluetooth connection is available.

3 INTENDED USE

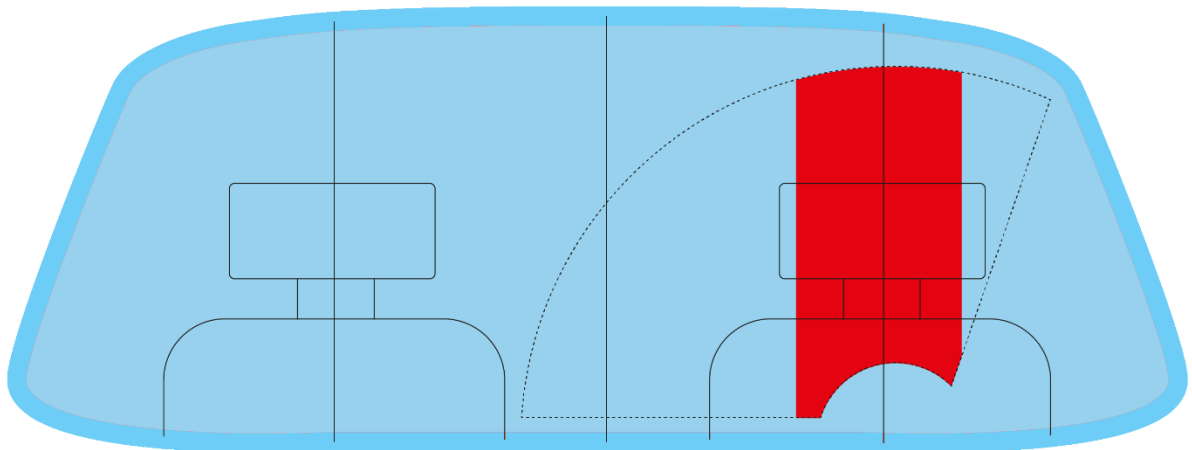
The device is designed for use inside an automobile only. For operation, the device must be connected to a mobile device via Bluetooth.

4 INSTALLATION NOTES / COMMISSIONING

The Safety Tag / Drive Tag is a mobile device that is installed and activated by the user in their car.

The Safety Tag / Drive Tag must be attached, with the pre-installed adhesive tape, on the inside of the windshield. The mounting location must not interfere with the driver's ability to safely operate the vehicle.

Caution: The device must not be mounted in the driver's direct field of vision.



The device's firmware is already preconfigured. No further installation is necessary. The user can press the Safety Tag / Drive Tag's button and connect their mobile device via Bluetooth to begin operation.

Note: If you attach the Safety Tag / Drive Tag to another surface in the vehicle, for example the dashboard, it is possible that the adhesive tape may damage the surface or leave adhesive residue when removing the device.

4.1 Mounting preparation

Before applying the Safety Tag / Drive Tag to the windshield, the glass area must be cleaned of dirt, grease, and other contaminants. The cleaning can be done with commercially available cleaning agents.

For optimum cleaning, the 3M™ VHB™ Surface Cleaner is recommended.

4.2 Safety Tag / Drive Tag removal

To remove the Safety Tag / Drive Tag from the windshield, grasp the device by its sides and turn it clockwise or counterclockwise in a twisting motion. Any remaining adhesive residue can be removed from the glass using a standard glass cleaner.

5 IMPORTANT SAFETY INSTRUCTIONS

Please read this document carefully. Use the Safety Tag / Drive Tag only as intended and described here. Follow all recommended safety instructions carefully to avoid possible damage to property (damage to the vehicle or the device) or personal injury as well as legal consequences.

5.1 Handling Battery-Powered Devices



The built-in lithium battery must be handled properly, otherwise there is a risk of fire and burns. Do not attempt to open or repair the device yourself. Do not disassemble, destroy, puncture, short-circuit, throw in fire and water or expose to temperatures exceeding 70°C.

Caution: If the battery is replaced with an incorrect type or in the wrong orientation, there is a risk of explosion.

Caution: If battery acid leaks out of the battery, do not allow the acid to come into contact with eyes, skin, or clothing. In case of contact, flush it with clear water and seek medical attention immediately.

Caution: Recycle or dispose the device according to the instructions described later in this document.

5.2 Additional Precautions

The Safety Tag / Drive Tag contains no user-serviceable parts. Do not attempt to open it. This can result in damage, failure of the device or personal injury.

Do not operate the device if it is damaged. Repairs may only be carried out by qualified technicians. For this, contact the distributor or manufacturer of the device.

A repair service is, inter alia, required if liquid is spilled on the unit, if it is exposed to rain or moisture, overheated, not functioning normally, or has been dropped from a height exceeding 1 m.

The device shall not be used near flammable or combustible vapors.

Do not insert any foreign objects into the device.

5.3 Sunlight and Temperature Fluctuations

Do not store or operate the Safety Tag / Drive Tag at temperatures below -20°C or above $+70^{\circ}\text{C}$. If you do not follow these instructions, acid may leak from the battery, it may get hot, explode, or ignite and cause personal injury. This can damage the device, the vehicle and other personal property.

If the Safety Tag / Drive Tag is exposed to high temperature and / or humidity fluctuations, condensation may occur in the device. To avoid damage, wait until the moisture has evaporated before using the device.

5.4 Safety While Driving

Operating a vehicle requires the full attention of the driver. Never use the Safety Tag / Drive Tag in such a way that the driver's attention is shifted away from the road. This may cause dangerous situations. Pay attention to all local laws and regulations regarding the use of equipment while driving vehicles.

5.5 Disruption of the Function of Medical Devices

The Safety Tag / Drive Tag may cause a malfunction in medical devices. Check with the manufacturer of the medical device to see if it has protection against external radio frequency radiation. Your doctor may be able to help you get the information.

- Avoid interference with pacemakers. A minimum distance of 15 cm between Safety Tag / Drive Tag and a pacemaker is recommended by manufacturers and the Independent Wireless Technology Research (WTR) group to avoid possible pacemaker interference.

If you suspect that the Safety Tag / Drive Tag could cause a problem with a pacemaker or other medical device, immediately remove it, and contact the manufacturer of the pacemaker or medical device for further action.

5.6 Precautions for Infants and Young Children

The Safety Tag / Drive Tag is not a toy. Keep it out of the reach of small children. Children may injure themselves or others or damage the device.

5.7 Care and Cleaning

When cleaning the windshield, please note that the Safety Tag / Drive Tag is protected by its housing from occasional spray but is not waterproof.

Please avoid spraying the device directly or dousing it with liquid to prevent liquid from entering the device. The Safety Tag / Drive Tag should only be cleaned with a dry or slightly damp cloth.

5.8 OPEN-SOURCE SOFTWARE NOTICE

The Safety Tag / Drive Tag firmware contains open-source software developed by third parties and licensed under an open-source software license. These licenses allow software to be freely used, modified, and shared.

The used licenses are listed below:

Licenses used:	More information can be found at:
nRF5 SDK License, SoftDevice License, Arm 3-clause BSD License	https://developer.nordicsemi.com/nRF5_SDK/nRF5_SDK_v17.x.x/doc/17.0.2/licenses.html

The Safety Tag / Drive Tag SDK contains the following open source Third party libraries:

IOS



ANDROID



6 PRODUCT LABEL (ELECTRONIC VERSION)

Product name	Safety Tag / Drive Tag
Unique marking / Part number	S1-V1
Contact address	PI Labs GmbH Ungererstrasse 129 80805 Munich Germany info@pi-labs.eu

For more information visit www.pi-labs.eu.

7 DISPOSAL OF ELECTRONICS

The Waste Electrical and Electronic Equipment (WEEE) Directive, which came into force as European law on 4 July 2012, is resulting in a major change in the disposal of used electrical appliances. The primary purpose of this directive is to prevent the removal of electronic waste while promoting reuse, recycling, and other forms of reprocessing to reduce waste.



At the end of its useful life, Safety Tag / Drive Tag must not be disposed of with normal household waste. Please return it at a recycling center for the treatment of WEEE free of charge.

The adjoining symbol on the device and in the instructions for use indicates this. Some of Safety Tag / Drive Tag's materials can be reused if you return the device to a collection point (recycling center, etc.).

By helping to recycle, you make an important contribution to the protection of the environment and the health of people. If necessary, contact the local authorities for more information on collection points.

8 CERTIFICATION



The Safety Tag / Drive Tag has been tested and CE marked as specified in Chapter 10 EU DECLARATION OF CONFORMITY (EU-KONFORMITÄTSERKLÄRUNG).



FCC ID: 2BAOC-S1V1

9 WARRANTY

This device is guaranteed to be free from manufacturing defects for up to 12 months from the date of purchase. Please keep the corresponding evidence for this.

The battery allows storage of 10 months at 25 degrees Celsius before final shipment to the customer.

If no indebted errors occur within this period, the only obligation of PI Labs GmbH is to repair the defect device according to its own opinion or to replace it with a comparable one.

Repair or replacement of the device will not begin a new warranty period. The warranty for the repaired or replaced equipment is warranted for the remainder of the warranty period or for three (3) months after the date of repair or replacement, whichever is longer.

Damage resulting from accidents or normal wear and tear is not covered by this or any other warranty. PI Labs GmbH assumes no liability for damage caused by accidents while using the device. In no event shall PI Labs GmbH be liable for incidental or consequential damages in connection with or in connection with the use of Safety Tag / Drive Tag.

Furthermore, the following cases exclude a warranty:

- > the model number of the device has been removed, deleted, defaced, altered, or rendered illegible,
- > the device was not used in accordance with the instructions set out in this document:
 - > it was treated improperly,
 - > it has been exposed to moisture, humidity, or extreme temperatures or to the rapid change of these conditions,
 - > the device was dropped from a height greater than 1m
- > unauthorized changes or connections were made,
- > the device was opened or repaired without permission.

In the event of a claim for damages based on this warranty, PI Labs GmbH or an authorized representative of PI Labs GmbH must be notified of the alleged damage within a reasonable period after discovery of the damage and in any case before expiry of the guarantee.

In the event of damage, send the defective device safely packed and stamped to the service address below. Please also note the instructions for shipping Lithium Metal batteries.

Please attach the following information to the package:

- > your complete address and contact information,
- > a copy of the original invoice, a receipt or proof of purchase for the device.

In no event shall PI Labs GmbH be liable under this warranty for loss of profits, loss of assumed savings, loss of data, loss due to non-use of the equipment or any damage. In any case, the liability of PI Labs GmbH and its suppliers under this warranty is limited to the price originally paid by the customer for the hardware.

PI Labs GmbH

Ungererstrasse 129

80805 Munich · Germany

info@pi-labs.eu

For more information visit www.pi-labs.eu.

10 EU DECLARATION OF CONFORMITY (EU-KONFORMITÄTSERKLÄRUNG)

We,

PI Labs GmbH

Ungererstr. 129
80805 München
Germany

declare under our solo responsibility that the product:

Model: Safety Tag / Drive Tag / Safety Tag / Drive Tag

Model No.: S1

is in conformity with following directives and/or regulations:

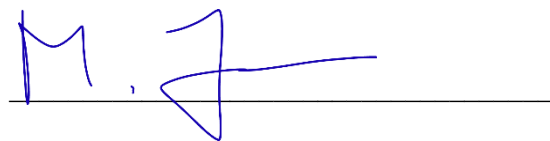
- > EMC Directive 2014/30/EU
- > RED Directive 2014/53/EU
- > RoHS Directive 2011/65/EU

The following harmonized standards have been applied:

- > EN 62311:2008
- > EN 62368-1: 2014/A11:2017
- > EN 301 489-1 V2.1.1 (2017-02)
- > EN 301 489-17 V3.1.1 2017-02)
- > EN 300 328 V2.2.2

The declaration fulfils the requirements of the regulation UN ECE R10 as last amended and in particular the limits defined in paragraphs 6.5., 6.6., 6.7., 6.8. and 6.9. of this regulation.

Munich, Germany, 12.02.2021



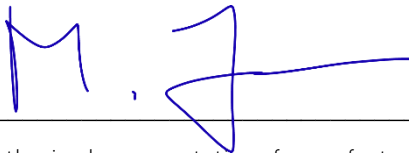
Authorized representative of manufacturer

Markus Jungermann, Managing Director

11 ICASA LABEL MARKING (SOUTH AFRICA)



Date: June 03,-2022

A handwritten signature in blue ink, appearing to be 'M. J.', written over a horizontal line.

Authorized representative of manufacturer
Markus Jungermann, Managing Director

12 FCC

FCC Compliance Statement

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.

CAUTION: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications 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.