



GSEtracker 1000 USER MANUAL



INTRODUCTION

Before you take this product in use, always read this guide to minimize and prevent misuse.

PRODUCT

GSEtrack implements devices on motorized and non-motorized GSE's to track their position without a power supply and provide valuable location and equipment data, without network installation or communication costs. This results in an increase in both efficiency as simplicity for the handling process of motorized and non-motorized GSE's. The users can always determine the location of the equipment even during peak hours or find back their own GSE's when enduring mix up of equipment from different companies. The GSEtrack platform also provides data about the maintenance history of every GSE's which provides the companies with knowledge of when to do maintenance. This tracking solution was desired for a long time by concerned parties and GSEtrack satisfies this demand with their new technology.



PURPOSE

The user guide's functionality will be to minimize and prevent misuse therefore it's strongly advised to read the manual guide before using the product.

The manual has been made with the assumption the reader has the knowledge and experience of how to use the required equipment tools to install the products.

COMPATIBILITY

This product works together with a GSEtrack Gateway.

FUNCTIONALITY

The perfect solution for insight and management of your non-motorized Ground Support Equipment.

PHYSICAL SPECIFICATIONS

Size(mm): 155 x 47 x 34.2

Size(in): 6.1 x 1.85 x 1.35

Weight(g): 136



WIRELESS RADIO SIGNAL

- The system is equipped with a 915 MHz radio. (FCC)
- The system is equipped with a 2.4 GHz radio.
- The system is equipped with a GPS module.
- The system only works when a connection with the GSEtrack Gateway can be made.
- The range is depending on local conditions such as the presence of metals. For good communication and to determine the right position, the physical placement of the GSEtracker on the object is important (see the installation instructions).

NETWORK CONNECTIVITY

Done through: LoRa, BLE and Undagrid technology

BATTERIES

The product contains AA lithium(2x) non-rechargeable batteries



REPAIR

You can not and should not repair or modify this product. If you are unsure about the proper operation, take the product back to the company where you purchased it.

WATER AND MOISTURE

The product is water resistant (IP67).

CLEANING

Clean this product with a wet cloth. Do not use harsh chemicals, solvents or strong detergents.

HANDLING

Extremely rough handling can damage internal circuits and fine mechanics.

ENVIRONMENT AND USE

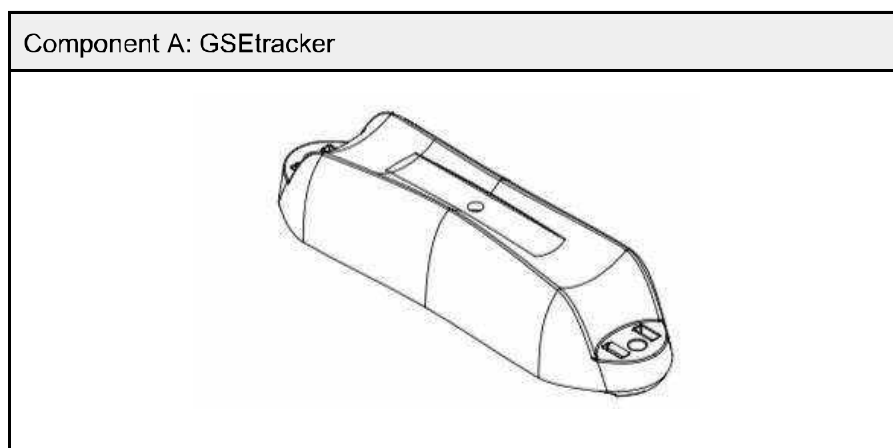
Do not expose the product to excessive heat or cold. Extreme temperatures have a negative influence on the lifetime of batteries and electronics. Operating Temperature is -20°C to +65°C.



PACKAGING CONTENT

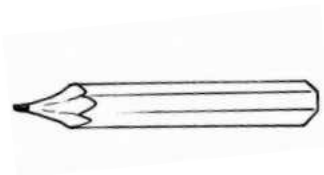

Check if you have all the necessary components. Component A is the delivered good and components B, C, D and E are components you need for the installation (by yourself).

- Delivered component



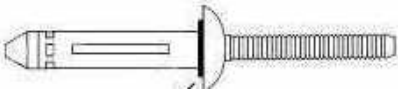
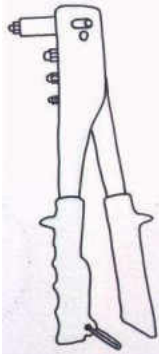


- Remaining components (not part of the delivered content)

Component B: Pencil	Component C: Drill machine
	



- Remaining components (not part of the delivered content)

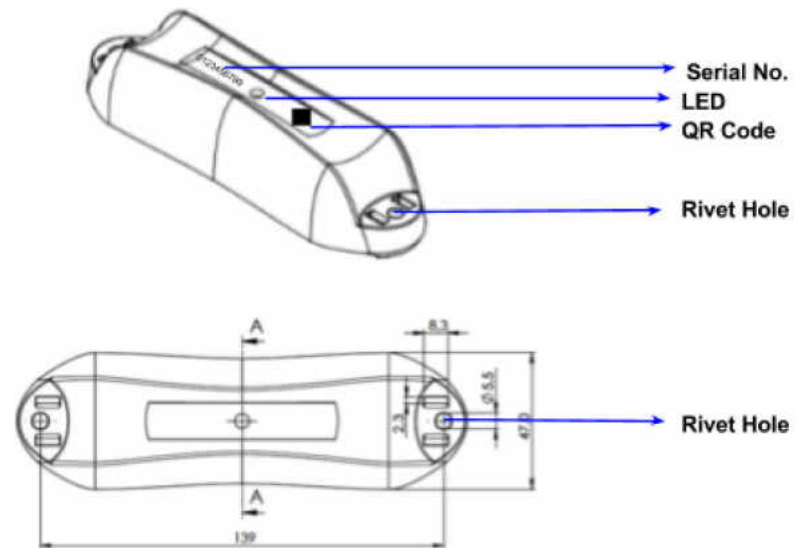
Component D: Rivet	Component E: Rivet pincer or gun
	



PRODUCT EXPLANATION

The GSEtracker consists of the following components.

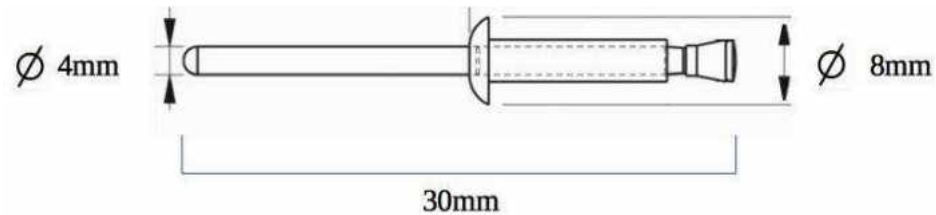
> Physical specifications





> Rivet

The rivet has the following characteristics. For each GSEtracker, two rivets are needed (which have to be placed in the rivet holes).



> AA Battery (2x)

The GSEtracker is powered by two AA batteries. The power supply will last approximately 3 years, depending on the use of the device and some unpredictable factors as the weather.

- NOTE: It is not possible to replace the batteries. Undagrid is not responsible for any further steps concerning GSEtrackers with replaced batteries.

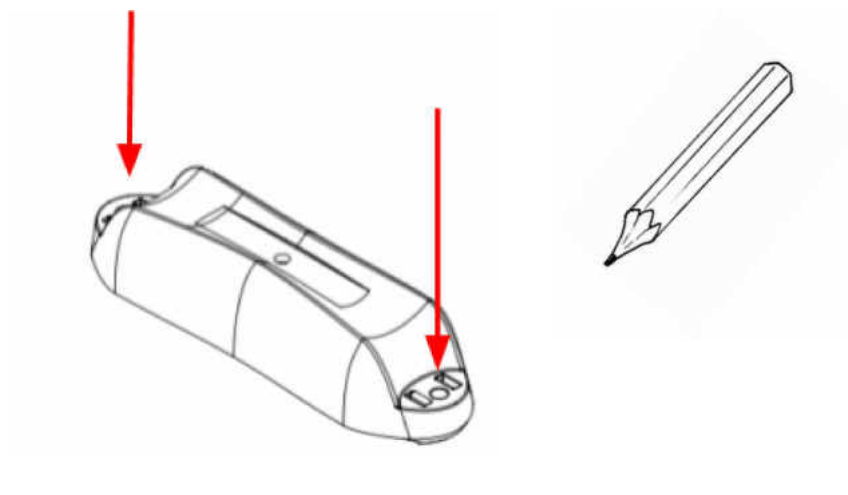


> The rest of the components do not have to meet any specific requirements.

INSTALLATION GUIDE

In this part you will find instructions on how to install the GSEtracker in a few minutes.

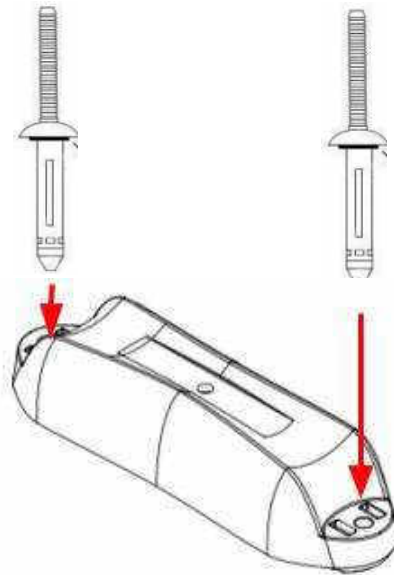
1. Find a spot on the steel where you want to install the GSEtracker. The ideal spot should comply with the following:
 - a. The steel should not hinder the connection between the GSEtracker and GPS satellites. The GSEtracker must be positioned skywards.
 - b. The steel should not hinder the connection between the GSEtracker and the Gateway.
 - c. The GSEtracker is positioned in a way that possible damage can be reduced.
2. Did you find a good spot? Great! Now draw with the pencil 2 holes, so you know exactly where to drill the holes.



3. Make two holes on the spots you just marked, by using the drill machine.

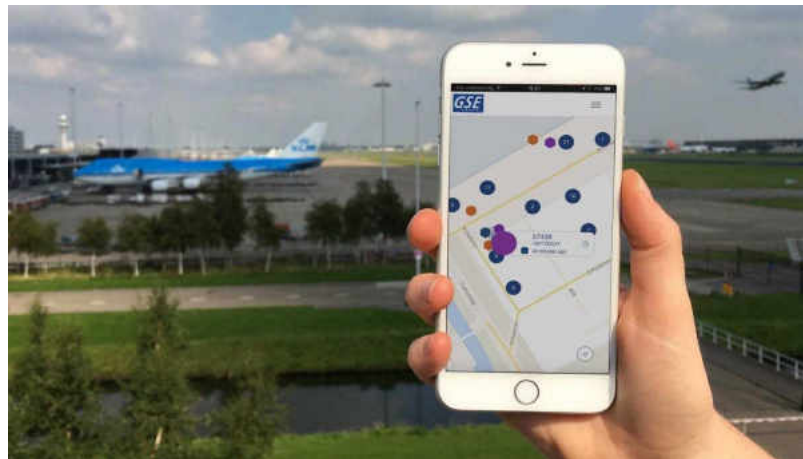


4. Take the GSEtracker, place the rivets through the holes and install the rivets by using the rivet pincer or rivet gun.





5. Register the Serial number of the GSEtracker (UG.....) and register the license of the cart or dolly that you have mounted it on.
6. Done! That was quick right? You successfully installed the GSEtracker. Now you can easily see where your ground support equipment is localized.





After usage, the GSEtracker has to be handed up at a recycling connection point. Do not throw this product away at the household waste.
For more information: www.gsetrack.com.

GUARANTEE

- If the product is defective, you can contact the point of purchase. It is important to add the original proof of purchase, when sending the defective product back to the company.
- The warranty covers construction and material faults, that are found on delivery.
- Avoid incorrect operation when you use / install the product. If a product is damaged, it is not possible to send the product back as a guarantee.



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DECLARATION OF CONFORMITY

Undagrid B.V. hereby declares under our own responsibility that:

Equipment:	GSEtracker
Model number:	GSEtracker 1000
Usage:	Outdoor, Indoor

is in conformity with the requirements of the following CE standards: Low Voltage Directive (95/2006/EC), Electromagnetic Compatibility Directive (108/2004/EC), Radio and Telecommunications Terminal Equipment Directive (5/1999/EC) and ROHS Directive (65/2011/ EC) and is in conformity that the equipment named above satisfies all the applicable technical regulations within the following standards:

EN 60950- 1 (2006) + A11 (2009) + A1 (2010) + A12 (2011) + AC (2011) + A2 (2013)
ETSI EN 301 489-17 V2.2.1 (2012-09)



ETSI EN 301 489-3 V1.6.1 (2013-08)
ETSI EN 301 489-1 V1.9.2 (2011-09)
ETSI EN 300 220-1 V2.4.1 (2012-05)
ETSI EN 300 328 V1.9.1 (2015-02)

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable Essential Requirements of the Directives.

Sign:

Marcus R.B. Brekweg, Director
Amsterdam, 3 February 2016

GSEtrack BV.

Toekanweg 2
1118 EB, Amsterdam Airport
The Netherlands
www.gsetrack.com

FCC Regulatory notices

Modification statement

Undagrid B.V. has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Wireless notice

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Class B digital device notice

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.