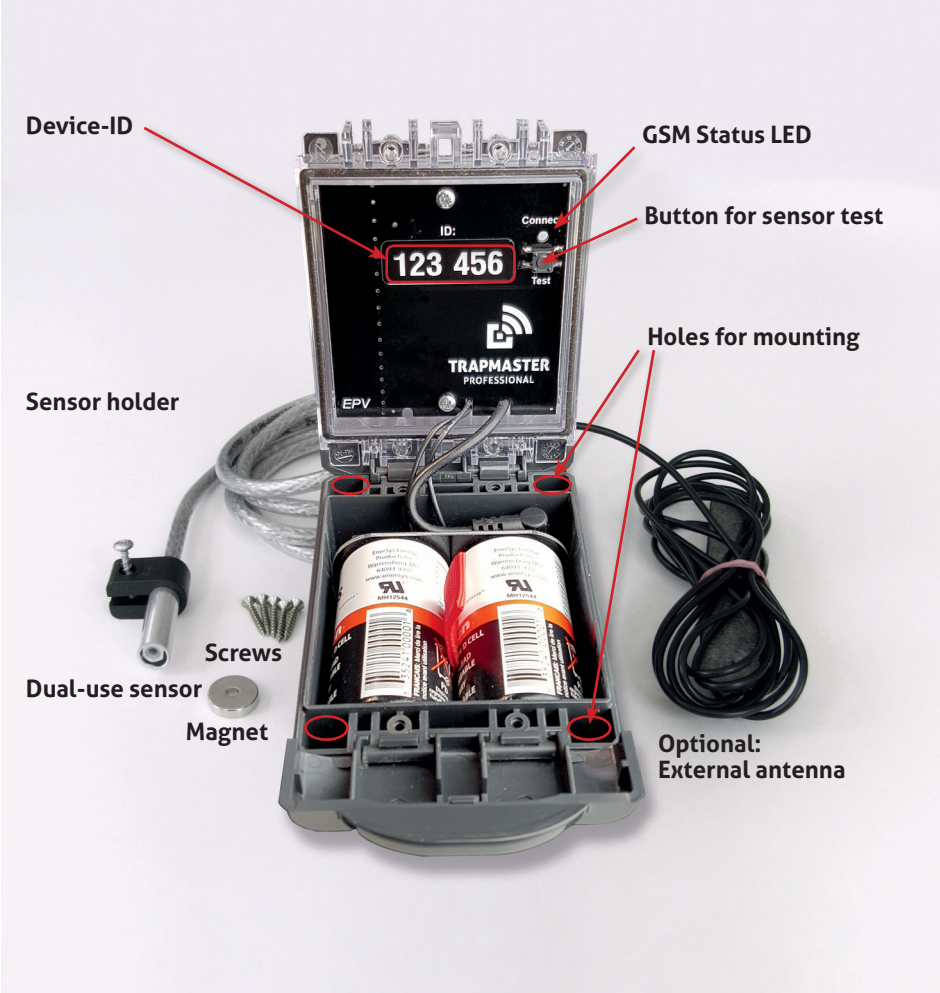
# TRAPMASTER

## Professional

102323EN - 19.09.2017

# User Manual

# Overview




## Dimensions:

The dimensions of the enclosure are approximately 12 x 7 x 6 cm + sensor cable.

# Thank you for purchasing a TRAPMASTER Professional

**The most important advantages of this trap alert system are:**

- **Free online administration system for your devices:** overview, full transparency and clear task management – no matter if you are operating 1 or very many traps. The online administration handles all routine tasks for you. For example, you no longer need to check if all devices have sent their status messages. This is fully automated.

- You can **tailor all notifications** to suit your personal preferences: Get them as Instant Message (via Telegram-App, similar to WhatsApp) and/or email and/or SMS.

- **Receive only one summarized status message** for all trap alerts.

- A **roaming SIM card is always included.** For maximum reliability in daily operations and to save you the hassle of purchasing, configuring and maintaining SIM cards, the TRAPMASTER Professional always includes a roaming SIM card with a data flat. This card works with all network operators and always uses the best available network at the trap location.

- **User-friendly cost-structure**: No minimum turnover and no ongoing costs during the off-season. The data flat costs 0.06€ per day, regardless of how many messages are sent. Devices can be activated or deactivated on a daily basis.

- **One central credit administration** for all SIM cards. You no longer need to monitor and replenish individual credit balances on SIM cards. Credit is maintained centrally in your user account.

- TRAPMASTER Professional is even **easier to install** than TRAPMASTER Classic.

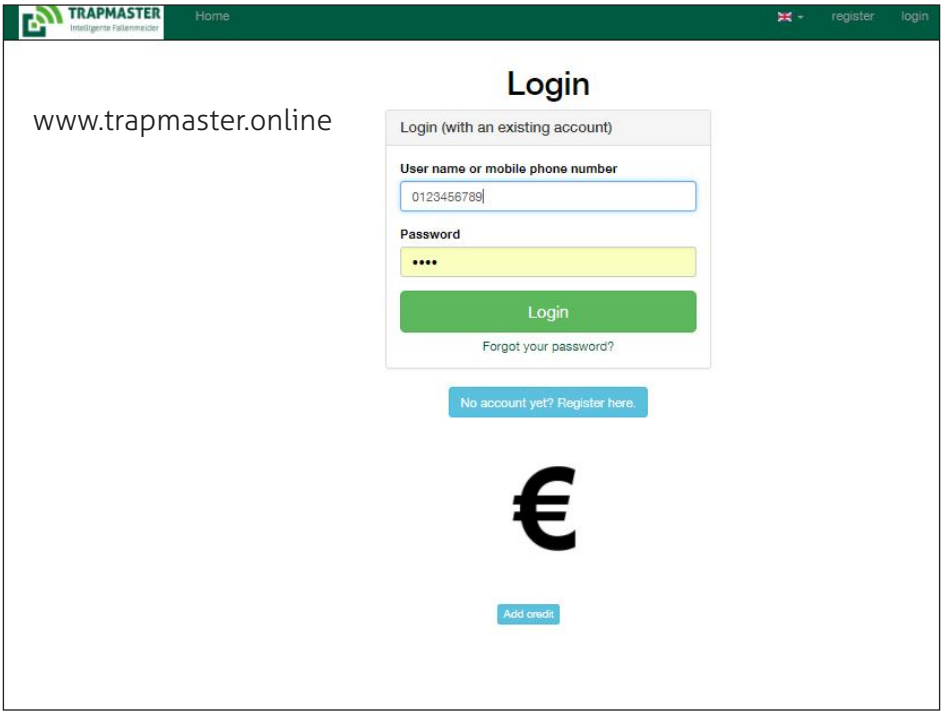
- **Theft protection.** A stolen TRAPMASTER Professional has no value for thieves. It cannot be operated by unauthorized persons. Possibility to locate your system.

- **Highest data security.** All data connections are encrypted. The TRAPMASTER server is located in Germany.

- **Fall-back mode for maximum reliability.** Should no data connection be possible via the mobile network or can the TRAPMASTER server not be reached, the TRAP MASTER will send you status and catch messages directly to your mobile phone by SMS.

# Commissioning

## Please go to www.trapmaster.online




To start operating your trap alert system you require the **6-digit device ID**. The ID can be found on the circuit board after opening the enclosure:

**Add device to user account:**
If you do not already have an account: Use the menu item **"Register"** to create an account.

Then go to the **"Device list"** menu and click on **"Add device"**. When you add a device into the online management system, the **SIM card will be activated automatically.**

## Connecting the battery

The TRAPMASTER is supplied with special rechargeable batteries. The battery is pre-charged at delivery. However, a full charge before commissioning is recommended.

Connect the plug to the socket on the battery.

Your TRAPMASTER will now go online (the "Connect" LED flashes) and register itself into the online management system. Finally, you will receive a "ready for operation!" message and the trap alert **beeps 1 time** (regular transmissions in the field are always silent).

If the trap alert **beeps 7 times** at this stage, the SIM card must still be activated (please also see chapter "Activate / Deactivate" on page 12).

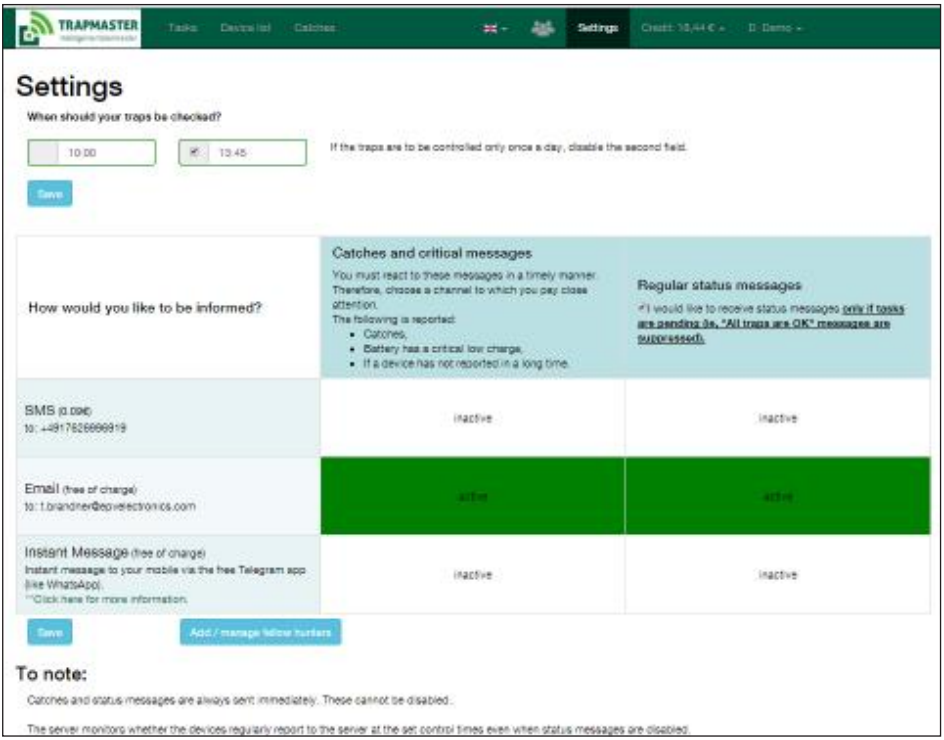
## Notifications and control times

Go to the **"Settings"** menu item on the website.

Here you set the trap **checking times,** i.e. when your traps should be checked. You can specify one or two times per day.

The TRAPMASTER Professional uses a small time window before each checking time to report to the server. At the set time, you will receive the current status of all trap alert systems in **one summarized status message** via your selected notification channel.

Please note that changes to the checking times will only take effect **after** the next communication of the system with the server (i.e. after the next status message, after the next catch or after the next activation of the trap).




In addition, you have the option to suppress pure "OK" messages (without the need for action).

Moreover, you can select your desired **notification channels** (email, instant message or SMS). By **clicking on the individual fields** you can activate or deactivate the respective option.

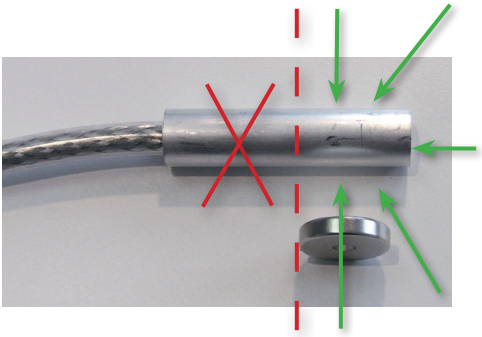
**Commissioning completed! Your devices are now ready for use. Next step: Mounting to the trap. An overview of the other functions of the online management system can be found later in this manual.**

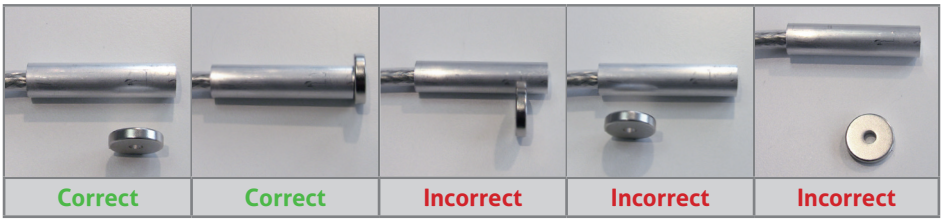
# Attaching the sensor and magnet to the trap and testing

The TRAPMASTER has a dual-use sensor which can be used both as a non-contact proximity switch (especially suitable e.g. for wooden box traps) as well as a pull-off magnet (suitable for many concrete pipe traps).

The sensor unit consists of an aluminium cylinder (proximity switch) and a magnet. The proximity switch can be used in the front half.

**Important:** Please do not bend the sensor cable sharply at the sensor body.





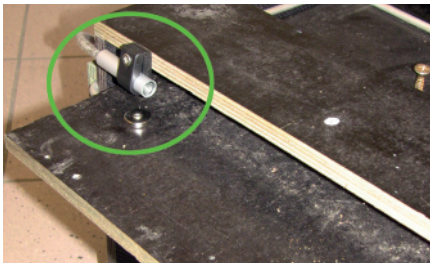

If the magnet is located close enough to the proximity switch, the switch closes. If the magnet moves away from the proximity switch when the trap doors close, the trap alert triggers an alarm.

## The sensor can be used in 2 ways:

### As a non-contact proximity switch

Attach the proximity switch and the magnet to your trap in such a way that they almost touch each other (less than 1 cm apart) in the set condition and **move (and stay) clearly apart** (> 5 cm) when the trap shuts.

**Trap set:**



**Trap closed:**

**Monitoring is automatically activated in this type of mounting when you reset the trap.**

### As a pull-off magnet

If you prefer triggering via a pulloff magnet, you can also attach the magnet with a thread or metal string (recommended against rodent bite damage) e.g. to the guillotine trap doors or other moving elements within the trap. The magnet is then attached to the aluminium tube.

You can attach the aluminium cylinder to a suitable location, e.g. the crossbar above the trap doors.

**Example for pull-off magnet installation (when trap is set):**

**Bear in mind that in this case you always have to reattach the magnet manually when you set the trap!**

**Important:** When installing the magnet, please make sure that the magnet **will not** immediately sway back towards the proximity switch when your trap shuts. Both elements should be **permanently separated** (until re-setting). Otherwise, a catch could be overwritten by the automatic reactivation (in this case unintentionally) and could remain unnoticed. This applies in particular to the mounting of TRAPMASTER to concrete tube traps.

## Check the sensor function

The TRAPMASTER has an acoustic / optical test mode that allows you to check if the sensor was installed correctly. **No SMS are sent during this test (and no charges incurred).**

1. Press the **"Set/Reset"** button. A short beep sounds.

2. Now close the trap doors and open them again. A beep sounds as soon as the proximity switch and magnet are close enough together. **You should hear a continuous tone when the trap is in "set" status.**

3. Close the trap. The acoustic signal should stop.

You have now confirmed that the sensor (and magnet) has been installed correctly. The test mode **automatically ends after 2 minutes**. You can also end it manually at any prior time by pressing the "Set / Reset" button again. Finally, the TRAPMASTER sends a "Ready" message.

## Re-tighten the cable gland

With protection class IP67, the TRAPMASTER enclosure offers a high protection against moisture. The same applies to the sensor cable gland. This is tightened firmly during final assembly.

However, the gland seals can loosen a little over time as the materials settle. We therefore recommend that you manually check the cable gland for a tight fit before you
use the device for the first time, as well as at the beginning of each hunting season, and tighten it if necessary (turn clockwise).

## Attaching and securing the TRAPMASTERS

You will find 4 holes in the bottom of the TRAPMASTER enclosure (when opened) for attaching the trap alert to the trap (suitable screws in the accessories bag). If possible, please attach it in such a way that the screwed cable gland points **downwards.**

The cover can be secured with 2 screws (3 x 20 mm), in order to make it difficult for unauthorized persons to open the trap alert system.

Short wastewater pipes with suitable end pieces (from a DIY store) also help to protect the trap alert. They conceal the trap alert without attracting attention and are impact-resistant. The sensor cable can be fed through a small hole to the exterior.
A warning sticker (e.g. "Danger: High Voltage", "Danger: Poison!") on the pipe improves the protective function.

# Setting the trap

Trap monitoring is automatically activated when the proximity switch and magnet are close enough to each other or when the magnet is attached to the aluminium tube. The TRAPMASTER acknowledges this with a short beep and a single blink of the LED.

Wherever possible, we recommend to use the non-contact proximity solution due to its reliability and because it requires no user interaction when setting the trap.

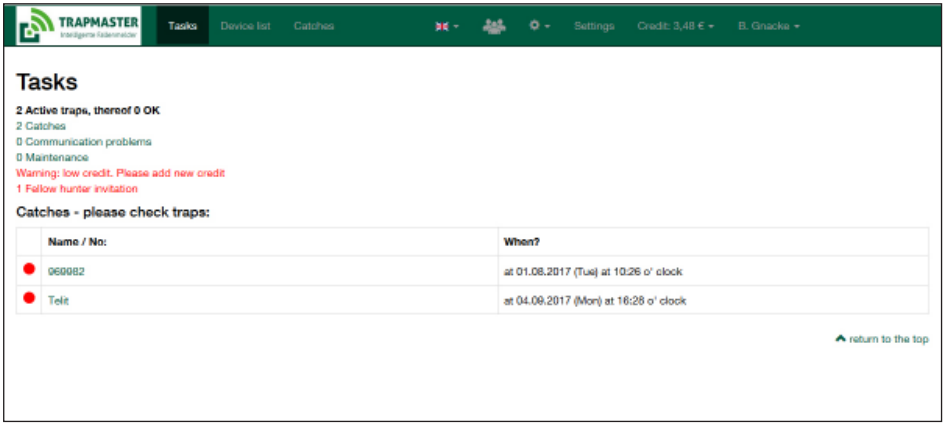
Any damage to the sensor cable e.g. from gnawing, tearing off or from vandalism triggers a desired (false) alarm. You thereby find out that the trap has a problem and can address it.

**Ready. Your trap is now being monitored!**

# Online Management features

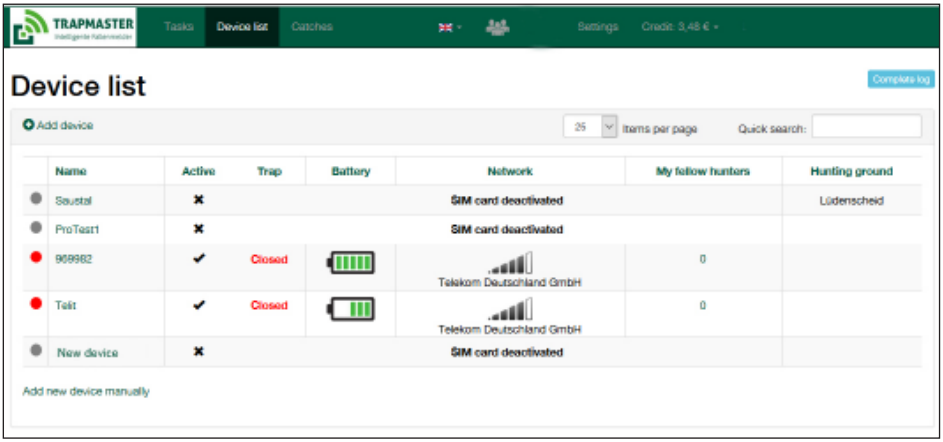
## View "Tasks"

This view is your "cockpit". Here you can always see the current need for action (catches, communication problems, charge battery). If all systems are "OK" (that is, there are no catches, communication problems, or empty batteries), there is no requirement for action, and this view is blank ("You have no tasks").




## View "Device list"

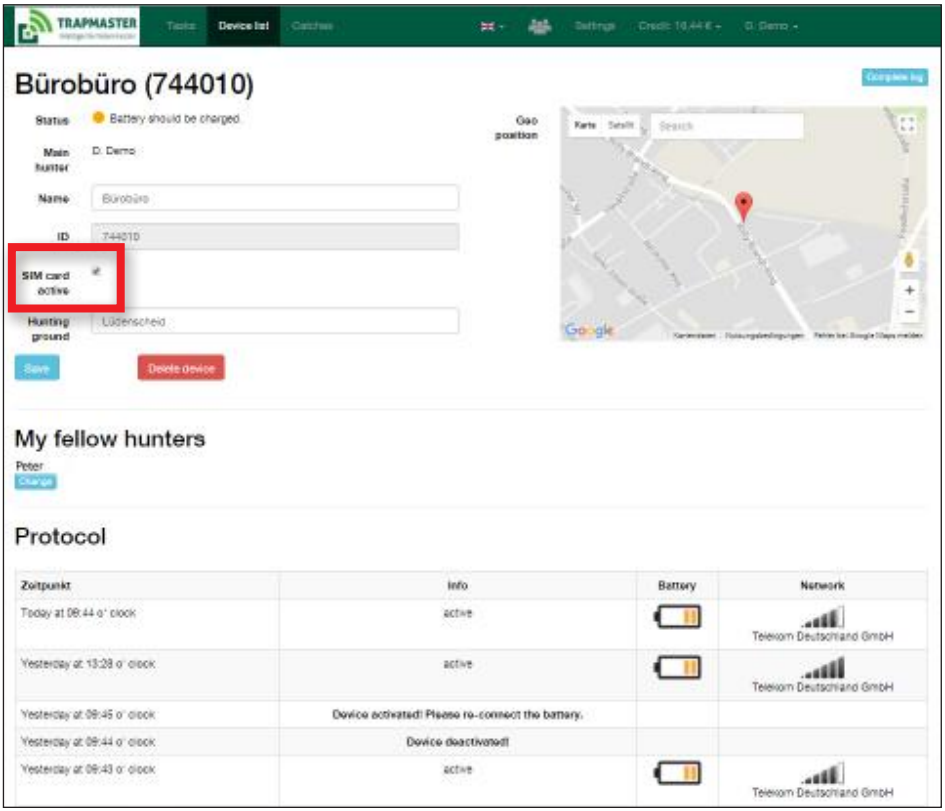
Here you will find a complete overview of all your trap alert systems.




Clicking on a device name will take you to the individual device overview.

## Individual device overview

Here you will see all system details and the complete history:




## Activate / Deactivate your device:

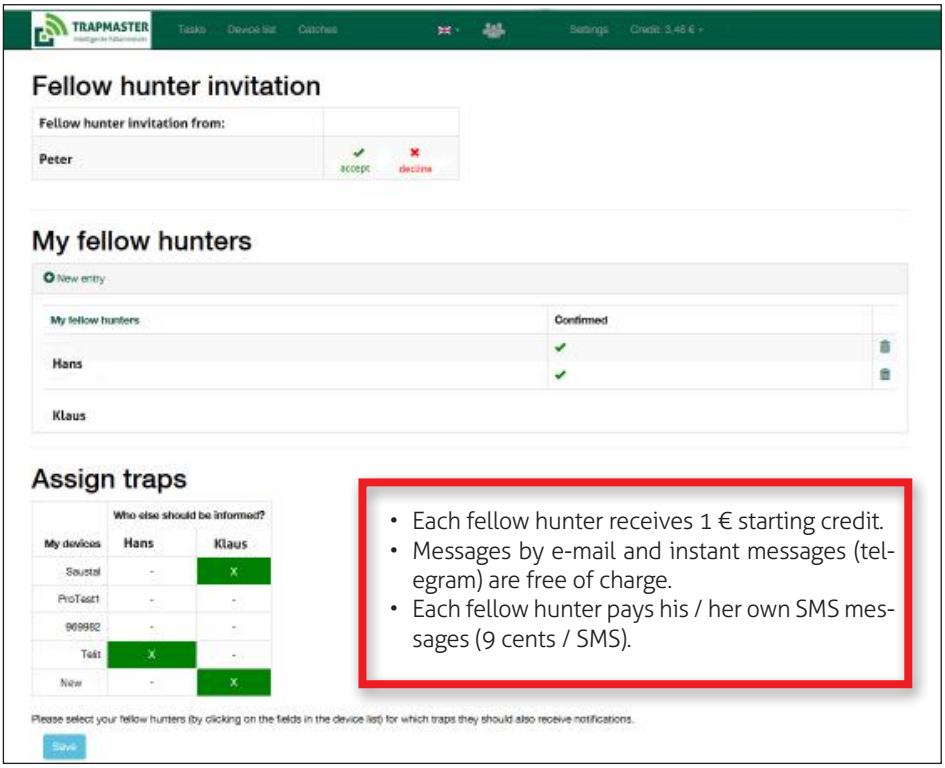
When you deactivate your trap alert system two things will happen:

- The device is taken from active monitoring. This means it will no longer generate any catch, warning or status messages.
- The SIM card will be disabled by the end of the day. No ongoing costs for this device (suitable for the hunting-free time).
- The trap/device remains greyed out in your device overview list.

Each trap alert system can be activated again at this point. The battery must be reattached after each activation.

## Manage fellow hunters

Here you can create as many fellow hunters as you like and share traps with them. You can set the allocation of the traps to your fellow hunters by clicking on them.




If you invite a fellow hunter, he / she automatically gets his / her own user account. By SMS, your fellow hunter receives his / her password or an invitation link.

If your fellow hunter already has his / her own user account (for example because he / she already has his own Professional trap alert system, or is already a fellow hunter somewhere else), your invitation will appear in his / her "Tasks" view and also in his / her status messages and he / she can accept them in his account.

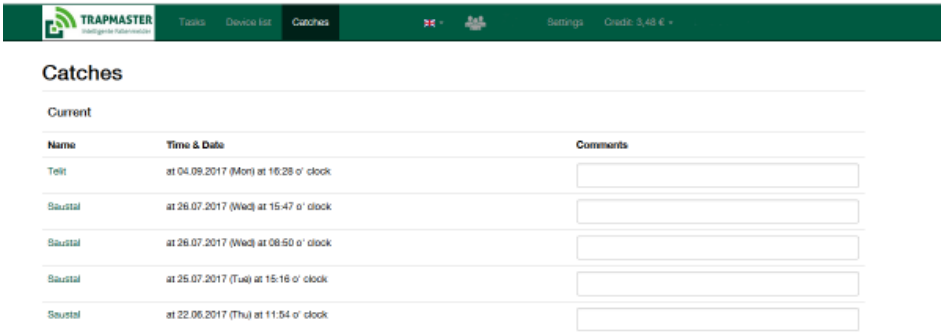
In his / her user account, a fellow hunters sees a single device list consisting of his "fellow hunter devises" (marked by symbols) and, if applicable, his own trap alert systems.

Each fellow hunter can then set the preferred notifications & control times individually in his / her user account exactly as he / she would like.

This relieves the main hunter of administrative tasks and creates an overview and acceptance among fellow-hunters.

## View "Catches"

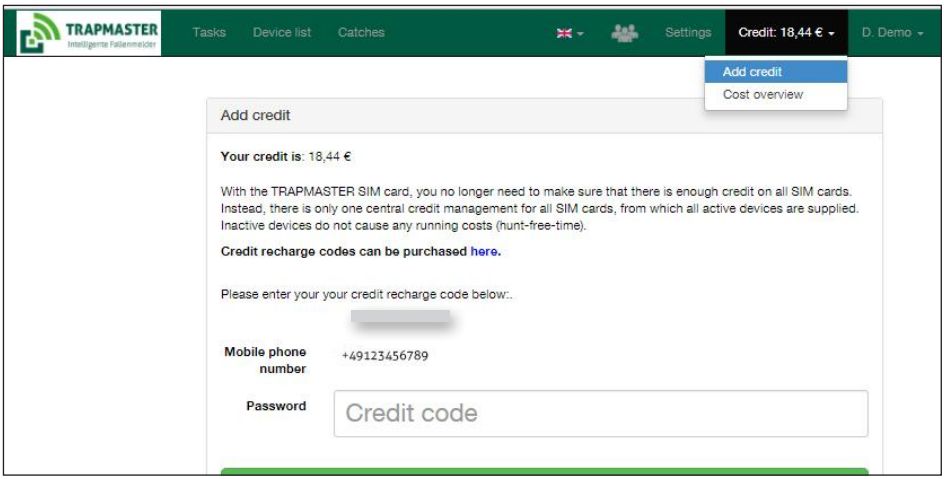
A list of all catches from all traps. You can add a comment to each catch.

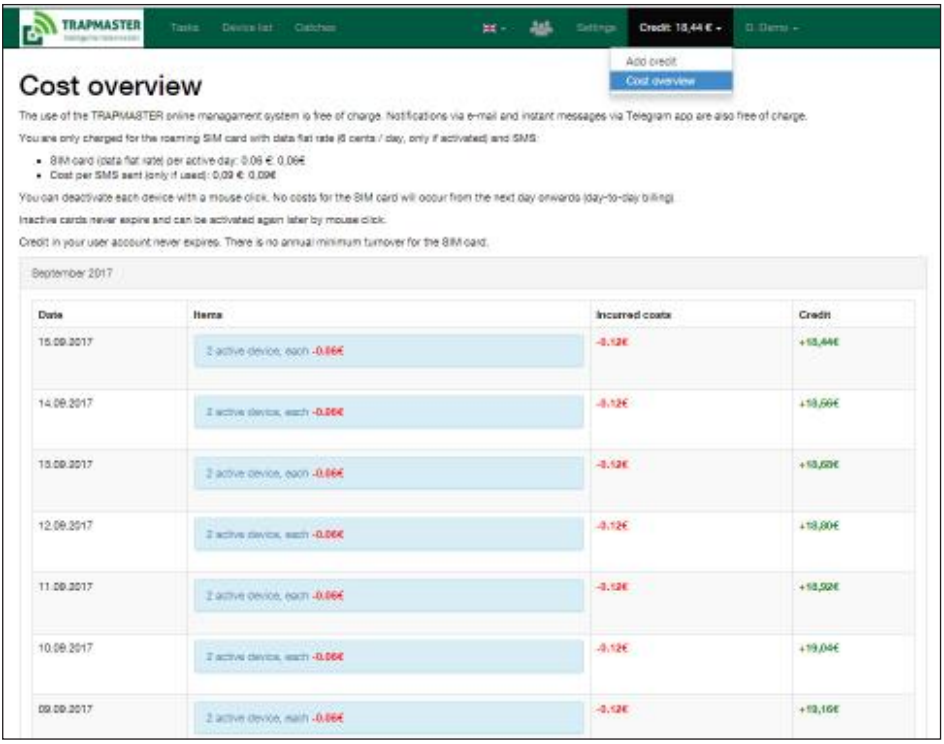



## Add credit

Here you add the credit for all SIM cards. Credit codes are available for purchase at www.trapmaster.eu

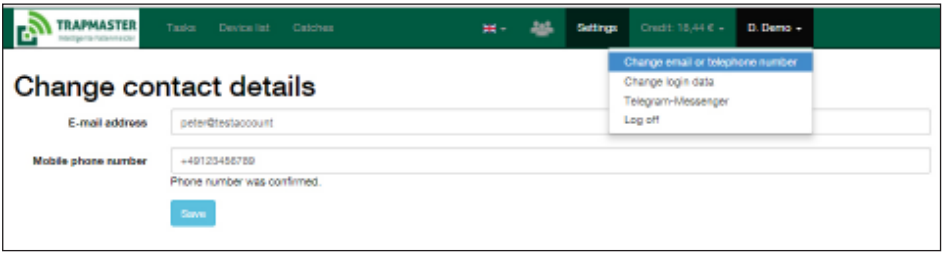
You will also find the **detailed cost overview** for all SIM cards here.






## Change personal data

The modification of your personal data, your password and the configuration of free instant messages via the Telegram-App are possible in the menu item at the top right (your user name, if given).



# Basic knowledge & extended functions

## Personal responsibility

**A trap alert system does not absolve you from your duty of care in hunting with live traps.** External factors, e.g. wilful damage, theft, insufficient credit or empty batteries mean that your live traps can continue to catch without trap alert monitoring. Please check your notifications and warnings.

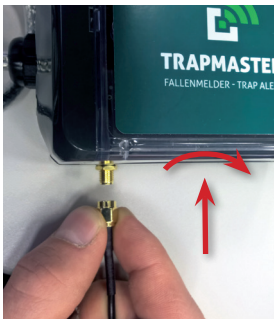
## Catch notifications

In an eight hour rhythm after a catch, you will receive catch reminders on your selected notification channel.

## Reception / antenna

The standard TRAPMASTER features a high-performance internal antenna. However, there are applications, in which the reception with the internal antenna is poor, e.g. if the TRAPMASTER is operated inside a closed metal housing which shields electromagnet waves.

For these applications, the TRAPMASTER is available with an external antenna. In this case, please position the external antenna outside of the shielding enclosure and position it as high as possible. The integrated antenna is non-functional in a TRAPMASTER with an external antenna, in order to prevent malfunctions.




**If present, the external antenna must be connected or your TRAPMASTER will not function!**

## Error codes

| Number of beeps / LED Signals | Meaning |
|---|---|
| 2 | Battery empty. Re-charging is urgently required! |
| 7 | Error during registration in the network. For example SIM card activation delay or your trap alert systems is still set on "inactive". Please check your system in the "Individual device overview that it has been activated. |
| 9 | SIM reading error! Please contact our support. |
| 12 | Error during data transmission. No need to act - the TRAPMASTER will automatically retry after a few minutes until the transmission is successful. |

# Battery technology & battery care

The TRAPMASTER is supplied with a special rechargeable battery. This battery is designed for a very wide temperature range (down to -40°C), in order to ensure reliable trap monitoring even at prolonged minus temperatures.

Due to tolerances of the battery and the charger, the green LED may not turn off completely and glow slightly. The battery has nevertheless been charged sufficiently.

Please fully charge the battery before it is first used (3 days or until the green LED on the charger turns off).

**Charging:** Charge the batteries **only** with the supplied charger. This was specially optimized for the TRAPMASTER batteries.

The battery should never be stored when it is almost empty. It can be stored with a full charge for up to a year. However, to care for the battery, we recommend leaving it on the charger in the off-season. There is no risk of overcharging.

**Please recharge the battery fully before reconnecting.**

**Ageing of the battery:** Batteries lose capacity over the course of time. If the green LED on the charger does not turn off after 3 days, the battery may nevertheless continue to be used without concern. However, it should always remain connected to the charger during charging for at least 3 days.

# Miscellaneous

The TRAPMASTER trap alert is a product of
EPV Electronics GmbH
Sedanstr. 18
D-58507 Lüdenscheid
Germany
Tel. +49 (0)2351 6583001
info@trapmaster.eu
www.trapmaster.eu

## Disposal of used batteries

As an end user, you are legally obliged to return all used batteries (Battery Directive); disposing of them in the household waste is prohibited.

## Electronic and electrical waste / WEEE / EAR

**WEE-Reg.-No.: DE 29789826.** This product may be not disposed of in the normal household waste at the end of its life, but must be taken to a collection point for recycling electrical and electronic devices. The recyclable materials are reusable in accordance with their labelling.

## Warranty

We provide a 2-year manufacturer's warranty on the TRAPMASTER, valid from the date of the purchase by the first customer. Vandalism, damage caused by animals and damage arising from force majeure (lightning, etc.) are excluded. The battery is a wearing part and is excluded from the warranty.

## Telecommunications product

This device is a telecommunications product and transmits on the frequencies 850/900/1800/1900 MHz with a maximum of 2W.