User Manual

PROFESSIONAL Finder of PAJ
Comment:

Thank you for the purchase of our finder. This guidance will show you the handling and operation of the product. Please keep this manual for future reference purposes.

Quick overview

This user manual includes:

◀ **Table of contents**

◀ **Quick start**

◀ **Functions and commands**

◀ **Location portal**

Is this manual too small for you?

For this guidance, we have chosen a particularly small print format, so that you will be able to put it in your pocket or in your car, without requiring too much space.

If this manual is too small for you, it is possible to find a current version of it as a PDF here:

www.paj-gps.de/user-manual-englisch

You can display the file in any size and even search for individual keywords.

Are you familiar with your PROFESSIONAL Finder?

We recommend using the PAJ Finder App to easily create commands.

Still not satisfied?

Then contact us! We will take care of your problem as soon as possible, so that you can be satisfied!

Contact:

Phone: +49 (0) 2292 39 499 59
E-Mail: info@paj-gps.de

We would be pleased if you did not directly open a case or leave a negative feedback, but give us first the opportunity to find a solution to your problem. This would be of benefit to both parties. Contact us and we will gladly help you! ☺

Satisfied?

If you are satisfied with our product, then we would be very happy to get a positive feedback or 5 stars from you!

Kriterien	Bewertungen
Artikel wie beschrieben	★★★★★
Kommunikation	★★★★★
Versandzeit	★★★★★
Versand- und Verpackungskosten	★★★★★

Best regards and many thanks,

your PAJ team

Table of contents

1 Scope of delivery

The scope of delivery includes:

- PAJ PROFESSIONAL Finder incl. Built-in 500mAh battery
- GPS antenna incl. magnet
- GSM antenna including adhesive tape
- SOS button
- Connection to the car battery (12-24V) including boots and fuse
- Connector for ignition status
- Microphone
- User Manual

We are constantly improving our products. Therefore, the contents of the manual may change. The current version is available at

www.paj-gps.de/user-manual-englisch

2   Grounds

Based on the GSM mobile network and the GPS satellites, this product can transmit its location via SMS or GPRS.

The PROFESSIONAL Finder offers you numerous possibilities for position finding. For more information about how to implement them, please go to chapter 6.

SIM cards with contract term can also be used. However, we recommend using a **prepaid SIM card** for the GPS tracker. Please do not use SIM cards that charge automatically as soon as they reach a specific account balance. This prevents you from incurring increased costs due to an incorrect setting.

Recommended for the first start of the PROFESSIONAL Finder 2.0 are places that **are not covered**, such as the garden or terrace (not in the apartment, garage, cellar or similar). Please note that the GSM signal is not supplied in some locations by the respective network provider.

Please enter the **uppercase** and **lowercase** of the letters when entering the commands. In addition, the plus characters (+) and the quotation marks („") **are not to be sent**. If you receive an error message, the command was not accepted. Please check the entries carefully and then repeat the procedure.

3   Quick start PROFESSIONAL Finder

Step 1: SIM card activation

In order to use the PROFESSIONAL finder, you need a SIM Card. This is not included in the standard scope of delivery. We recommend using a prepaid card, as costs will be charged from the direct use only. Activate your card and make sure that it works. Please write down the phone number of this SIM Card.

The SIM card used for the PROFESSIONAL Finder must be in the standard format.

Standard   **Mikro**   **Nano**
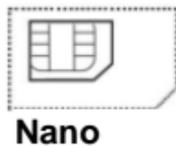
Step 2: Disable PIN-Code and voice mail of the SIM Card
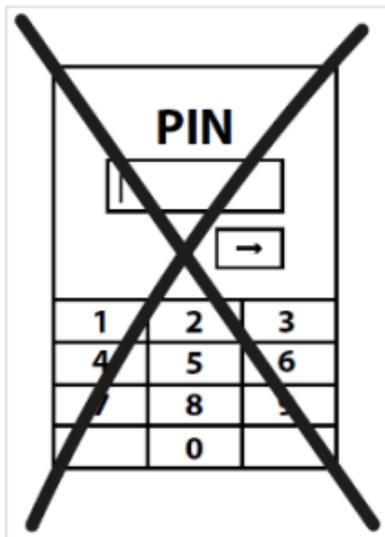
Insert your SIM Card in your mobile phone. Disable the PIN Code request of the SIM Card over the security setting on your cell phone. For most providers, it is possible to disable the voice mail by calling "##002#". For further details, please refer to the instructions of use of your mobile operator or network provider.

SIM-PIN (off)   ☎ ##002#

You do not need to use an old mobile phone to set the SIM card. The SIM card can be set to the standard size. Most SIM cards are now **flexible** and can be broken down to micro- and nanoscales and then enlarged again using the frame.

The SIM card used must be in the standard format. In order for the SIM card to be inserted into the tracker, the SIM card compartment must first be opened and the so-called SIM card slot removed. To do this, press the yellow small button on the front of the unit using a pointed object. The top picture shows the opening using a SIM card needle. *This is not included in the standard delivery scope.*

Insert the SIM card into the card slot. The gold contacts must point upwards. As a next step, the SIM card slot with SIM card can be inserted again into the finder.

Step 5: Launching the product for the first time

The PROFESSIONAL finder requires approximately 1-3 minutes to establish contact with the GPS and GSM signals for the first time. The LED light will begin to flash. Below you will find the meaning of the LED lights when the finder is connected to the external power supply or refers to the internal battery.

Meaning of the LED lights:

Signal	Bedeutung
rot blinkt schnell	GSM status
rot blinkt langsam	GSM+GPRS status
red lights constantly	No GSM/GPRS signal available.
green lights constantly	GPS signal available.
All LED lights off	Standby mode

What if I do not receive a signal from PAJ's PROFESSIONAL Finder?

If the PROFESSIONAL finder does not receive a signal, first check the **functionality** of your SIM card. You should also check whether the **PIN query is switched off**. You should also **change the location** if the signal condition does not change after a long wait. Another point to check is the **antennas** for GSM and GPS. These must be plugged according to instructions.

For the **first start** of the "PROFESSIONAL Finder 2.0", we recommend places which are not **covered**, such as the garden or the terrace (not in the apartment, garage, cellar or similar). Please note that some GPS and / or GSM signals are not provided by the network provider in some locations.

Step 6: Call and track your PROFESSIONAL Finder

Call the number of the SIM card that you inserted in the GPS finder in order to request a location.

After that, the finder will send you an SMS with the coordinates and a link to Google Maps directly to your mobile phone. As soon as you use click on the link, the finder shows the precise location.

Please make sure that your unit has sufficient reception power and is not located on a covered space at the beginning.

The team of PAJ-GPS wishes you lots of fun with your PROFESSIONAL Finder!

For more detailed information, please read the user manual on the following pages.

4   Technical data

Dimensions	83 mm x 54 mm x 26 mm
GPS accuracy	Up to 5 meters
Weight	130 g
Time to start	Cold start: 1-3 min
	Standby: 35 s
	in operation: 10 s
Network	GSM/GPRS
Band	850/900/1800/1900 MHz
GPS chip	SIRF3 Chipset
GSM/GPRS module	Simcom Sim340 oder Simcom Sim300
GPS reception	-159 dBm
Built-in rechargeable battery	3,7V 500 mHa Li-ion
Connection external battery	12-24 V
Storage temperature	from -40 °C to +80 °C
Operating environment	from -20 °C to +55 °C
Air humidity	5%-95%

The GPS accuracy depends on the GPS reception of the finder.

5   Product graphics

Front side

Rückseite

Cable-harness-port

ON-OFF LED

Batterie on-/off-switcher

LED-Signal
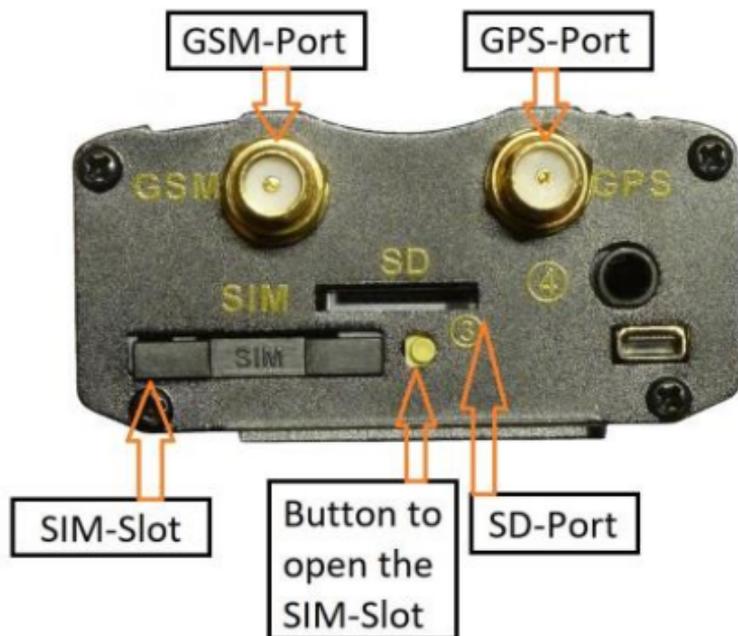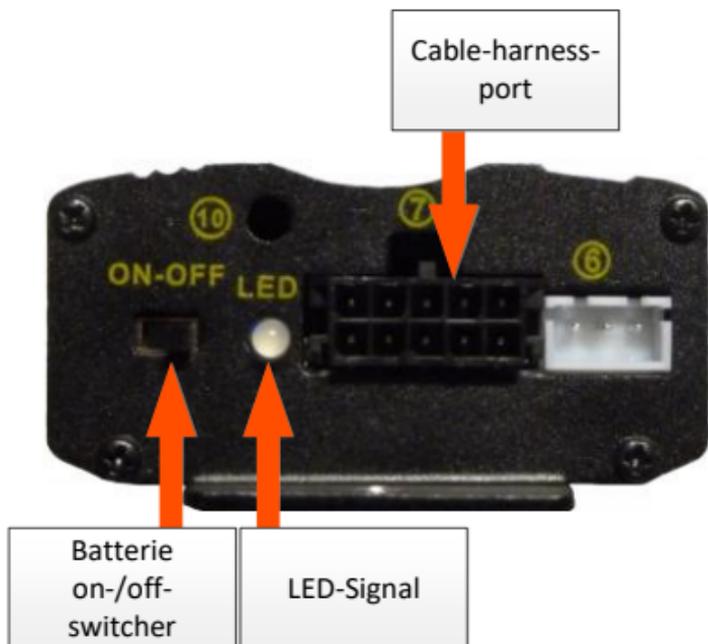
6   Installation

The following points should be observed:

◀   The PROFESSIONAL finder should not be installed near fuel lines or other combustible components in the engine compartment.

◀   Attach the PROFESSIONAL Finder so that no other components in the vehicle are damaged.

◀   By installing the "PROFESSIONAL FINDER" on the vehicle battery it is possible that the battery itself is discharged to supply the PROFESSIONAL finder with current. Before connecting, check whether your vehicle has a discharge protection and retrofit it if necessary.

◀   Please always observe the manufacturing specifications of your vehicle. Claims for replacement due to incorrect connections are hereby excluded.

6.1 **FRONT SIDE**

Connect the GPS antenna and GSM antenna to the designated holders on the front of the "PROFESSIONAL Finder 2.0". You can also use the product graphics of the front panel.

Please ensure that the GPS antenna is placed horizontally and the flat side is facing downwards. The less the GPS antenna is hidden, the better the device will receive the signal.

Note: A magnet is installed in the GPS antenna for easy mounting and an adhesive tape is attached to the GSM antenna on both sides.

6.2 **BACKING**

The cable harness is connected to the rear of the "PROFESSIONAL Finder 2.0". How the cables of the cable harness are to be connected is described in the following steps. The following is an illustration of this. The numbers in the figure correspond to the respective steps. Please not consider the picture only!

(1.) The SOS button is already connected. We recommend to mount these in the interior part of the vehicle so that the driver can operate them. The buttons should not be too obviously attached for an alleged thief to not detect them. If you find this too unsafe, you can also fix the buttons in the engine compartment.

(2.) Please connect the slim red and black cable to the battery. The red cable is to be connected to the negative pole (-), the black one to the positive pole (+).

ATTENTION!
Falsely connecting the poles will most likely result in permanent damage to the charger or the PROFESSIONAL Finder.
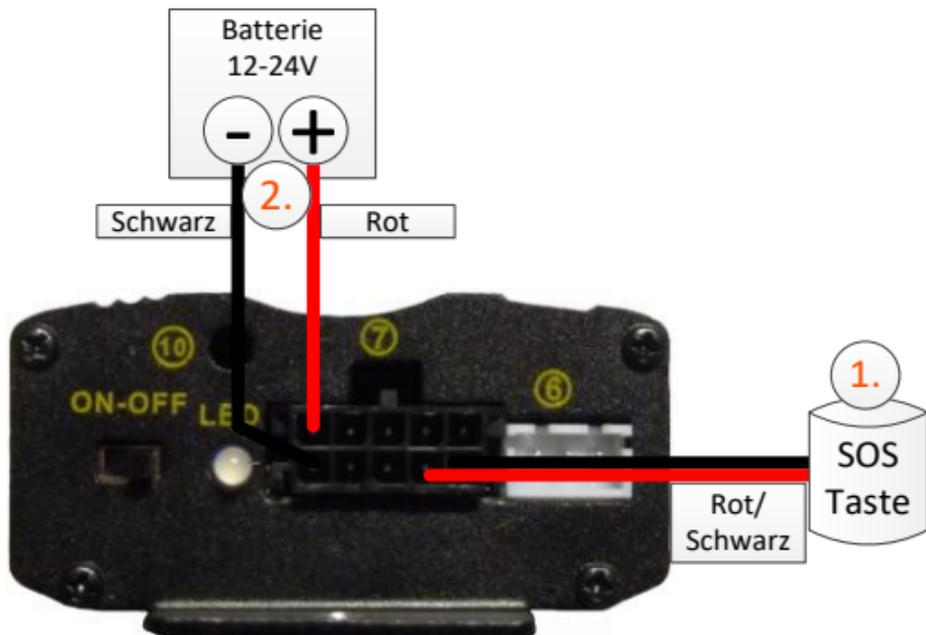
7 Starting up

7.1 DEACTIVATION OF THE **PIN CODE/MAILBOX**

(1.) Insert the SIM card into an ordinary mobile phone and then deactivate the PIN code request of the SIM card. You usually have to do this under the menu item Settings or security settings of your mobile phone. A single input of the PIN code when switching on the mobile phone is not enough.

For a detailed description of how to disable the PIN code request, please refer to the manual of your mobile phone. Please also note that the PIN code query is not the screen number lock on your phone.

(2.) Turn off the mailbox to avoid any incurring costs for the calling mobile phone. By most providers, the mailbox can be deactivated by calling "##002#".

(3.) Please note that you can only receive a confirmation from the PROFESSIONAL Finder when you are providing your call number with a call. Switch on the number transmission (also caller ID) of your mobile phone.

The SIM-card can be inserted in newer as well as older generations of mobile phones. For the insertion in micro- or nano-card holders simply break the plastic frame surrounding the chip on the predefined breaking points to the respective scale needed.

7.2 INSERTION OF THE SIM CARD

In order for the SIM card to be inserted into the tracker, the SIM card compartment must first be opened and the so-called SIM card slot removed. To do this, press the yellow small button on the front of the device using a pointed object (see figure with needle). Insert the SIM card into the card slot. The gold contacts must point upwards. As a next step, the SIM card slot with SIM card can be inserted again into the finder.

The SIM card used for the PROFESSIONAL Finder must be in the standard format.

| Standard | Mikro | Nano |

7.3 **LAUNCHING THE PRODUCT FOR THE FIRST TIME, TURNING ON AND LED SIGNALS**

The PROFESSIONAL finder requires approximately 1-3 minutes to establish contact with the GPS and GSM signals for the first time. The LED light will begin to flash. Below is the meaning of the LED lights when the finder is connected to the external power supply, or refers to the internal battery.

Meaning of the LED lights:

Signal	Meaning
red flashes fast	GSM signal available.
red flashes slowly	GSM+GPRS signal available
red lights constantly	no GSM+GPRS-Signal available
green lights constantly	GPS-Signal available
All the LED lights are off.	Standby mode

What if I do not receive a signal from PAJ's PROFESSIONAL Finder?

If the PROFESSIONAL finder does not receive a signal, first check the **functionality** of your SIM card. You should also check whether the **PIN query is switched off**. You should also **change the location** if the signal condition does not change after a long wait. Another point to check is the **antennas** for GSM and GPS. These must be plugged according to instructions.

For the **first start** of the "PROFESSIONAL Finder 2.0", we recommend places which are not **covered**, such as the garden or the terrace (not in the apartment, garage, cellar or similar). Please note that some GPS and / or GSM signals are not provided by the network provider in some locations.

7.4 AUTHORIZATION

Important: You must authorize your phone number so that you can use the GPS Tracker and avoid misuse!

Facility

The authorization is sent by SMS to the PROFESSIONAL finder.

„**admin**+**Password** white space **yourMobilePhoneNumber**"

Example:

admin123456 01751234567

This number is not the number of the SIM card, which is in the GPS tracker, but the one with which you want to query the GPS tracker!

Add additional admin numbers

In total, you can authorize up to five phone numbers. All these numbers receive an SMS in the event of an alarm. To add more Admin numbers, retransmit the Admin command to the PROFESSIONAL Finder.

Delete the admin number

You can remove any number stored as an admin number.

"noadmin+Password white space **phoneNumber"**

Example:
📲 **noadmin123456 0175654321**

White spaces can be displayed as a line break in a sent SMS. Please pay attention to this note if you use the SMS representations shown below as an aid

Sample picture of the SMS you receive from the GPS tracker:

noadmin123456
01719563492

noadmin ok

White space displayed as a line break
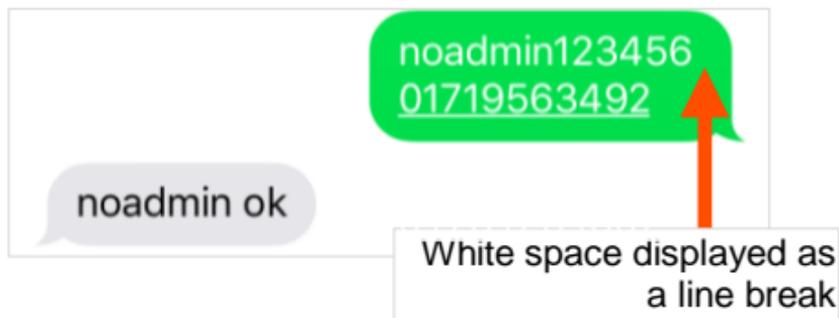
(4.) If you now call the device to retrieve the location, the admin number (your mobile number) will receive a message (see stand-by location request). You will also receive the alarms on this telephone number.

There are differences in the authorization of the telephone number in relation to network services from home to abroad, as well as from abroad to your home country. If necessary, make sure that the spelling of the authorized telephone number is followed by country code.
Example: If your PROFESSIONAL Finder is abroad and should send information to a German telephone number, which is authorized for this purpose, the number must be included in the following format in the command:
+491751234567

7.5 PASSWORD CHANGE

For your own safety, it is very important that you change the password directly at the beginning of use. In this way, you will be the only user who can make further settings on the device.

The password must always contain **6 digits**. Standard password: 123456

Send an SMS with the following content to the FINDER to change the password:

„password+oldPassword white space **newPassword"**

Example: To change the password from "123456" to "654321", send an SMS containing

„password123456 654321"

PROFESSIONAL Finder v.2.0ENG
© PAJ UG (haftungsbeschränkt)
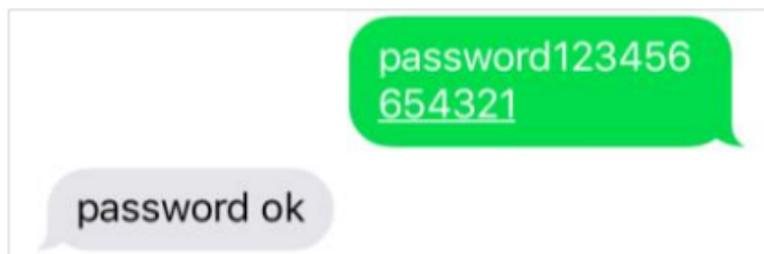
The password can **not contain any letters**. It must always consist of 6 digits. You can choose any combination with numbers from 0-9.

This newly set password is now generally valid for every input of a command, for which your PROFESSIONAL Finder requires the password.

Furthermore, the password always refers to the device. Each of the stored admin numbers thus uses the **same password**. This must be adjusted only once and does not have to be assigned individually for each number.

7.6 **RESETTING TO THE FACTORY DEFAULTS**

You can reset your PROFESSIONAL Finder to factory defaults. This process can only be carried out by the Admin number. The admin number is then automatically deleted.

„**reset+password**"

Example:

reset123456

---
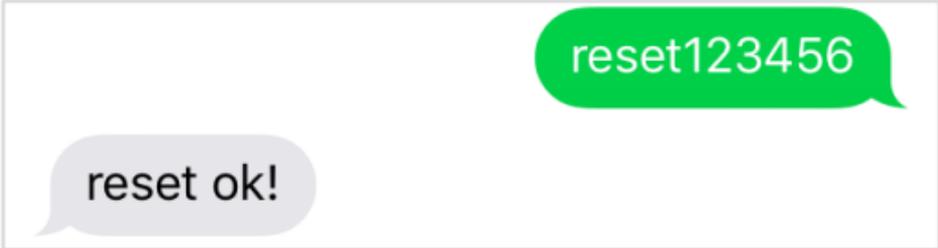
reset123456

reset ok!

PAJ Finder App

Do you already know the new PAJ Finder app?

◀ **for IOS and Android**

◀ **No longer remember SMS commands**

◀ **Fast and easy**

◀ **download now for free**

GET IT ON
Google Play

Download on the
App Store

8   Machine setup and commands

Please note that the commands are case-sensitive. In addition, the quotes in the SMS are not to be sent. These are only for the purpose of the command. If you receive an error message, the command was not accepted. Please check your entries carefully, then try again.

Tip:
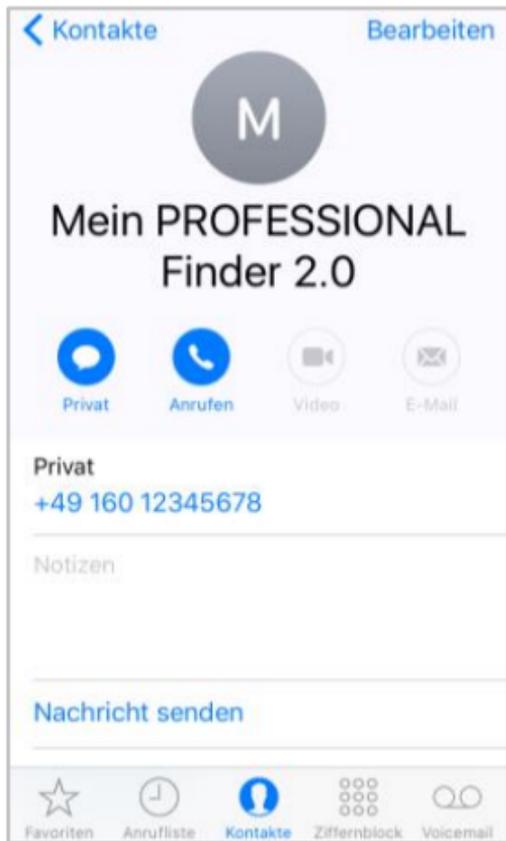
Save the phone number of the GPS Finder as a contact in your mobile phone. This allows you to quickly and easily send commands to your PROFESSIONAL Finder and also perform a location query.

8.1 LOCATION REQUEST

Select the phone number of the SIM card that is used in your PROFESSIONAL Finder to call the device.

The PROFESSIONAL finder knows the call. He then sends an SMS with the GPS information.

If no authorized number is stored when the PROFESSIONAL Finder is called, it sends its information by SMS to the caller with each call. If an Admin number is stored, the PROFESSIONAL Finder sends information exclusively to this Admin number.

The SMS with the information may look differently depending on the operating system on the smartphone. The link to Google Maps directly allows you to select the location of the device in real time.

Meaning of the SMS contents

Content	Meaning
lat:50.798885	Latitude
lon:7.611802	Longitude
speed:0.24	Speed in which the PROFESSIONAL finder moves. Due to the rotation of the earth and the influence of the weather, small deviations are possible. In addition, this may cause the GPS tracker to stop and display a speed between 0-5 km / h. This is completely normal due to measuring tolerances.
T:17/03/30 09:23	The date will be displayed in the English format (30th March 2017)
http://maps.google.com/maps?f=q&q=50.798885,7.611802&z=16	Direct link to the search using Google Maps
Sensors	ON = connected OFF = separated
Pwr: ON	External power supply
Door: OFF	Magnetic sensor
ACC: OFF	Ignition

Preview iPhone:

lat:50.798607 lon: 7.611603
speed:0.80
T:17/03/30 09:33
http://maps.google.com/maps?f=q&q=50.798607,7.611603&z=16
Pwr: ON Door: OFF
ACC: OFF

SMS-N...

30.03. Heute 09:23 2

lat:50.798560 lon:7.611633
speed:0.17
T:17/03/30 09:23
http://maps.google.com/maps?
f=q&q=50.798560,7.611633&z=16
Pwr: ON Door: OFF ACC: OFF

+ Nachricht schreiben

Preview in Google Maps

The geodata consist of latitude and longitude. Via the above link / Google-Maps-Display, you can directly have access to the current location of the device with an internet-enabled smartphone.

50°47'55.2"N 7°36'41....

Example of a Google Maps image on the smartphone.

8.2 AUTOMATIC SENDING THE LOCATION IN INTERVALS

If you do not have an SMS flat rate, SMS charges may be applied.

The PROFESSIONAL Finder is equipped to automatically send an SMS with the above information in a fixed interval to the authorized numbers.

Facility with limited number:

„fix040s020n+password"

Example:
fix040s020n123456

Now, information is sent to the authorized numbers every 40 seconds, 20 times in a row.

.

How to define an unlimited number and delete the function is described on the following pages.

s= seconds; m=minutes; h=hours:
here set for 40 second intervals

n=numbere
here 20 times

fix040s020nPassword

define an unlimited number

For this purpose, use the value *** n. The Finder will now send SMS to the authorized number every 40 seconds until the function is revoked.

„fix040s***n+Password"

Example:

fix040s***n123456

Delete the function:

Send an SMS with the following content to the PROFESSIONAL Finder from PAJ:

„notn+Password"

(SMS) Example:
notn123456

---

notn123456

notn ok
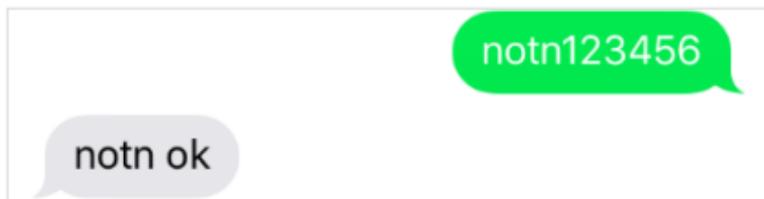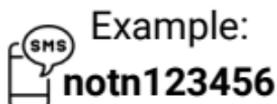
The numbers **must be 3-digits** and must not exceed the value of 255. The smallest time interval is 20 seconds.

Heute, 12:28

fix040s020n123456

Lac:7f59 65d3
T:17/03/30 12:28
Last:
T:09:38

Rosbacher Reha

Graseweg

Kreissparkasse Köln,
Geldautomat Rosbach

Deutsche Post

Map data @2017 GeoBasis-DE/BKG (@2009), Google

Google Maps
maps.google.com

30.03. Heute 12:28 ⃞

fix040s020n123456

30.03. Heute 12:28 ⃞

Lac:7f59 65d3
T:17/03/30 12:28
Last:
T:09:38
http://maps.google.com/maps?
f=q&q=50.798535,7.611758&z=16
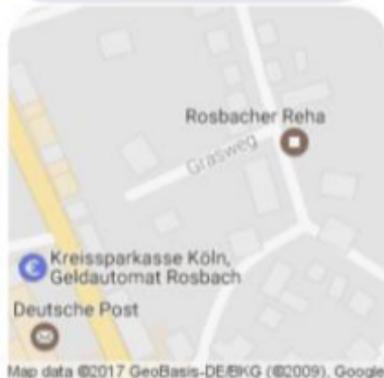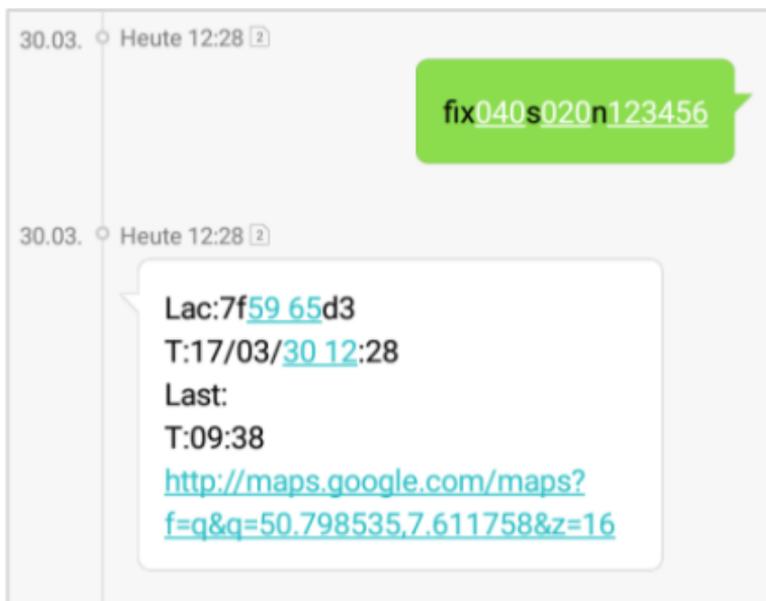
8.3 **DATA STORAGE ON THE MICRO SD CARD**

The PROFESSIONAL Finder from PAJ can automatically store its position data on a Micro SD card at fixed intervals. This must be inserted into the slot provided for the SD card. The memory card should have a storage capacity between 1GB - 2GB..

Limited number storage

"savenumbers+Password"

Example:

save030s005n123456

save030s005n123456

save ok

Unlimited storage

„savetimes***n+Password"

Example:

save030s***n123456

save060s***n123456

save ok

> When **storing with a limited number**, the position data are only stored as often as specified in the command.
>
> When **storing with an unlimited number**, the data is stored on the SD card until the function with the corresponding command is revoked.

End of storage

„**nosave+Password**"
Example:
nosave123456

Delete all data on the Micro SD card

„**clear+Passwort**"
Example:
clear123456

Evaluation of the data

There are two different ways to evaluate and process the stored data on the Micro SD card. A quick evaluation, as well as a detailed evaluation. In both cases, the SD card must be taken from the Finder and inserted into a PC with Internet connection.

Fast evaluation

The data will be displayed on Google Maps

(1.) Open the drive of the SD card and the text file contained in it..

(2.) Copy the entire text..

(3.) Open the following Web site:

http://www.gpsvisualizer.com/map_input?form=google

(4.) Paste the previously copied text into the free text field at the bottom right with the heading "Or paste your data here:".

(5.) Click on "Draw the map".

(6.) The Google Maps position data will be displayed.

Evaluation in detail

The data is evaluated on Google Earth.

(1.) Please download Google Earth first and install it properly on your PC.

https://www.google.de/intl/de/earth/

(2.) Open the drive of the SD card and the text file contained in it.

(3.) Copy the entire text.

(4.) Open the following Web site:

http://www.gpsvisualizer.com/map_input?form=googleearth

(5.) Paste the previously copied text into the free text field at the bottom right with the heading "Or paste your data here:".

(6.) Then click the button "Create KML file"

(7.) A new page opens in the browser. Please enter the file with the extension kmz. The file is downloaded automatically.

(8.) You can now open this file from your PC (please note in which folder the file is after the download).

(9.) Google Earth should now open automatically and evaluate the file.

(10.) You can now view and track their distance.

8.4 RADIUS ALARM

The PROFESSIONAL Finder has the function of sending an SMS to the authorized numbers as soon as it leaves a predefined radius. Once this function has been set, the PROFESSIONAL finder of PAJ must first be at a defined position for 10 minutes to set the radius alarm. This location forms the centre of the radius. If the unit is then again at a different point of view for a further 10 minutes, the radius is re-established there.

The radius is always given in **meters**. The command must always contain **4 digits**. For example for 200 meters 0200, for 1500 meters 1500. To avoid false alarms, **at least 200 meters must be specified**.

Facility

Send an SMS containing the following to PAJ's
PROFESSIONAL Finder

"move+Password white space **Radius"**

Example:

📱(sms) **move123456 0200**

If the tracker leaves this area, an alarm is triggered. In
the event of an alarm, it sends an SMS containing

"move alarm!+Information"

to the authorized numbers.
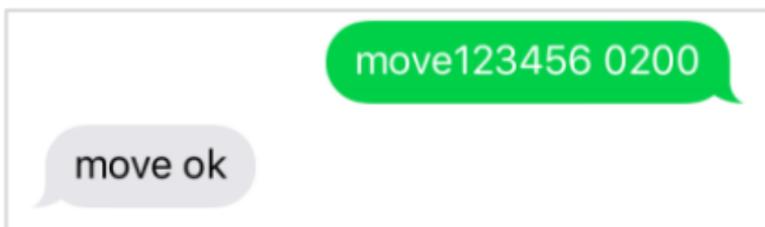
Change radius

If you want to change the radius, please send the same SMS to the Finder with an appropriate specification for the meters. Please make sure that the radius is not too small to prevent a false alarm.

„move+Password white space **Newradius"**

Example:
radius123456 1500

Delete the function:

Send an SMS with the content to the PROFESSIONAL Finder:

„nomove+Password"

Example
nomove123456

8.5 **TIME ADJUSTEMENT**

Depending on where the PROFESSIONAL Finder is, it could be in a **different time zone**. Send an SMS containing:

„**time** White space **Zone+password** white space **timezone**"

Example:

„**time zone123456 1".**

---

time zone123456 1
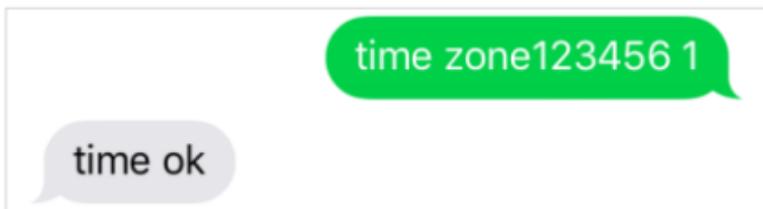
time ok

The value of the time for Germany is "1" or "2" during the summer time. On the homepage www.zeitzonen.de you can find more information about the timezone you are currently in.

8.6 ALARM FOR OVERSPEEDING

This function allows you to send an SMS to the authorized numbers when exceeding a certain speed.

Device:

"**speed+password** white space **080**"

Example:

"**speed123456 080**".

speed123456 080

speed ok

If the speed is exceeded, the PROFESSIONAL Finder sends the following SMS to the authorized numbers:

"**speed alarm!+informations**"

The minimum speed must be 050 (50 km / h). Please also ensure that the number is three digits.

Delete the function

„**nospeed+password**".

Example:

„**nospeed123456**"

nospeed123456

nospeed ok

8.7 CORRIDOR ALARM

Specify a corridor where the PAJ PROFESSIONAL finder may be located. If this area is left, the Finder sends an SMS with corresponding information to the authorized phone numbers. When the siren is activated, an audible signal will sound.

On the following pages you will get the length and width settings for the settings:

(1st) http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

(2.) www.mapper.acme.com

In contrast to the alarm defined by radius, the alarm defined by corridor establishes a rectangular area. Longitudes and latitudes of the upper left as well as lower right corner serve as basic parameters for the establishment of such area.

Facility

The PROFESSIONAL finder must be located in the corridor for about 10 minutes during the setup. For simplicity, the following are abbreviated as follows:

Latitude top left	-> BOL
longitude top left	-> LOL
latitude bottom right	-> BUR
longitude bottom right	-> LUR

„**stockade+Password** white space
BOL,LOL;BUR,LUR"

Example:

📱(sms) **stockade123456 30.495171,
-84.363157;30.392167,-84.221021**

Considering that the command is very long, spaces are often represented as a line break. The input is only a blank as indicated in the description. If the defined corridor is left, an alarm SMS is sent to the authorized numbers.

Example 1

BOL,LOL →

stockade123456
30.495171,-84.363157;
30.392167,-84.221021

← BUR,LUR

stockade ok!

Example 2

stockade123456
50.781116,7.181109;50.7
78321,7.185272

stockade ok!

Define a new corridor

If you want to change the corridor, simply send the same command to the PROFESSIONAL finder with adjusted data for latitude and longitude for the upper left and lower right corners. The data is updated. Make sure that the unit is approximately 10 minutes at a point in the corridor while you are making this setting..

Delete the function

If you do not want to define a corridor, the settings can be deleted..

„nostockade+Password"

Example:

nostockade123456

8.8 ALARM IN CONNECTING THE EXTERNAL POWER SUPPLY

If the GPS tracker is disconnected from the external power supply, you will immediately receive an alarm SMS, so that you can intervene in time. When the siren is activated, an audible signal will sound. In order to keep you up-to-date with the location, the GPS tracker subsequently sends an SMS with the coordinates to the authorized number every 3 minutes until this function is revoked. In this phase, the GPS tracker is powered by the internal battery to send its signals. This function is activated by default. If you do not want any notifications when disconnecting the external power supply, this function can be disabled. In the event of an alarm, the Finder sends the SMS Power alarm !, as well as the corresponding information.

Turn off the notifications

"**extpower+Password** white space **off**"

Example:
📱(sms) **extpower123456 off**

> extpower123456 off

extpower off ok

Turn on the notifications

"**extpower+Password** white space **on**"

Example:
📱(sms) **extpower123456 on**

> extpower123456 on

extpower on ok

8.9 **SOS BUTTON**

If the SOS button is pressed for 3 seconds, the Finder will send SMS with this information to all authorized numbers. This call is sent every three minutes until one of the recipients returns an SMS.

<div align="center">

📱(sms) **help me**

</div>

The finder answers with an SMS and does not send any further SOS information until the SOS button is pressed again.

The SOS button of the PAJ's PROFESSIONAL Finder can be installed according to your needs. It is better to use places which are slightly hidden and **not directly visible**. For example, a place below the steering wheel would be perfect.

help me!
lat:50.798552
long:7.611677
speed:0.00
T:17/03/31 12:47

Google Maps
maps.google.com

help me

help ok

8.10 LOW BATTERY POWER

If the finder's battery power drops below 3.55 V (about 10%), an SMS will be sent to the authorized numbers with the appropriate information. This function is performed by default. You can display this automatic information on request.

Issue a notification
„**lowbattery+Password** white space **off**"

Command

lowbattery123456 off

lowbattery123456 off

lowbattery off ok

Address notification

"**lowbattery+Password** white space **on**"

Command
lowbattery123456 on

lowbattery123456 on

lowbattery on ok

The information on the low battery level refers exclusively to the **internal battery installed in the Finder**. We strongly recommend to load the PROFESSIONAL finder from PAJ over the **external power supply** in case of permanent use. The internal battery is intended only to send information even if the battery is disconnected from the car battery.

8.11 STANDBY MODE

This mode is switched on by default to save energy. The Finder will search for a GPS signal as soon as it is called. If you want PAJ's PROFESSIONAL Finder to permanently connect to the GPS network, you can turn off this mode.

Turn off the Standby mode

„**sleep+Password** white space **off**"
Example: **sleep123456 off**

sleep123456 off

sleep off ok!

Please note that the GPS data can not always be exact **immediately** after the standby mode. Wait a moment and **ask** the PROFESSIONAL finder **again** to make the coordinates more accurate.

Turn on the Standby mode

PAJ's PROFESSIONAL finder can go back to standby mode, so it will search for a GPS signal as soon as it is called.

"sleep+Password white space **on"**

Example:
📱**sleep123456 on**

> sleep123456 on

sleep on ok!

Function	Description
Factory setting	begin+Password **begin123456**
Authorize phone number	admin+Password+white space+Number **admin123456 0160123456**
Change password	Password+old Password+white space+new password **password123456 654321**
Interval	fix040s020+Password **fix040s020123456**
Define corridor	Stockade+Password+white space+BOL,LOL;BUR,LUR **stockade123456 0.798789,22.879789;25.525225,50.111111**
Radius	move+Password+white space+Radius **move123456 0200**
Time setting	time+white sapce+zone+password+white space+Timezone **time zone123456 1**
IMEI check	imei+Password **imei123456**

Disconnecting ext. power supply	extpower+Password+white space+on **extpower123456 on**
Speed alarm	speed+Password+white space+080 **speed123456 080**
Save data limited	save030s005n+Password **save030s005n123456**
Save data unlimited	save030s***n+Password **save030s***n123456**
Standby mode	sleep+Password+white space+on **sleep123456 on**
Disconnect the battery when the it is low	lowbattery+Password+white space+off **lowbattery123456 off**

9 Frequently Asked Questions (FAQ)

(1.) What to do if the LED is lit continuously?

✓ Change location
✓ Check whether the PIN code request of the SIM card has been drawn up before it is inserted into the PROFESSIONAL Finder
✓ Charge the PROFESSIONAL Finder directly over the long term using the charging cable and then switch it on again

(2.) Why do I receive an error message via SMS?

✓ Please note the uppercase and lowercase of the letters for the commands. Also the plus signs (+) and the quotation marks ("") are not to be sent. If you receive an error message, the command was not

accepted. Please check your entries carefully, then try again.

(3.) **How do I reset the PROFESSIONAL Finder to factory setting?**

✓ See point 7.6.

(4.) **Do the quotes in the manual have to be sent as well?**

✓ No! This only serves to confine the command.

(5.) **Do I have to set the line breaks shown in the displayed SMS too?**

✓ No! Spaces in sent SMS can be displayed as line breaks. Please note the spelling in the example.

(6.) **Are there any differences in the use of the finder abroad?**

✓ Yes! The format of the telephone number to which the alarms are to be sent must be adapted. For a detailed description and an example, see page 35.

10   PAJ location portal

10.1 REGISTER PORTAL ACCESS

Secure your access

SIMPLE, CONVENIENT and PROFESSIONAL

In order to easily track your GPS station online, we have developed a location portal for you. For example, here you can request the position in intervals, set up a geo-fence and much more.

Our location portal can be found directly in our shop:

» WWW.PAJ-GPS.DE »

- ✓ If you do not have access yet, you can also test our location portal for **14 days without obligation and free of charge**.

- ✓ On the following pages, we will describe in detail how you have to proceed in order to use your GPS tracker with the location portal.

(1.) Go to the following website and click on "Test access"

» PORTAL.PAJ-GPS.DE »

IMEI = Device number on the GPS Finder (under the bar code)

(2.) Please fill in the form to register your test access.

(3.) For this purse, the IMEI-number of your cell-phone has to be requested.

(4.) You will then receive an e-mail in which we confirm the creation of the access.

(5.) In this e-mail, you must click on the activation link to ensure that you have requested access.

(6.) You will also receive your username and password in the same e-mail. Here you can login directly at portal.paj-gps.de/mobil.

Example:

Dear John Doe,

Your PAJ GPS portal access has been set up.

Before you can use your account, you must confirm the reception of this e-mail.

Please click on the following link:

http: //portal.paj-gps.dexxxxxxxxxxxxxxxxxx
You need to confirm this link in your e-mail.

After that, you can get the following access data at the address Portal.paj-gps.de/mobil.

Your username is: [Your email address]

Your password is xxxxx

(7.) Before you can connect the GPS tracker to the location portal, you must ensure the following points:

✓ You have already activated the SIM Card
✓ You have disabled the request of a PIN Code
✓ Insert the SIM card into a mobile phone. Use the security setting on your mobile phone to deactivate the SIM card's general PIN code query. For details, please refer to your phone's user manual.
✓ Your SIM card has a data volume
✓ For example, for SIM cards of:
  Blue, Netokom, O2 and Alditalk, this is usually given automatically. For SIM cards from Congstar, Telekom or Vodafone, you usually have to open it again manually.
✓ The SIM card is inserted into the Finder as intended.

✓ The FINDER is switched on or connected to the external power supply.

10.2 CONNECT THE PROFESSIONAL FINDER WITH THE LOCATION PORTAL

We have prepared the following configuration commands for you. Please send these commands by SMS to your locating device in the given order.

SET ADMIN TELEPHONE NUMBER
admin123456 01751234567

Instead of the 01751234567 please call the phone number of **your** mobile phone. Please make sure that you DO NOT take the phone number of the SIM card that you inserted into the FINDER.
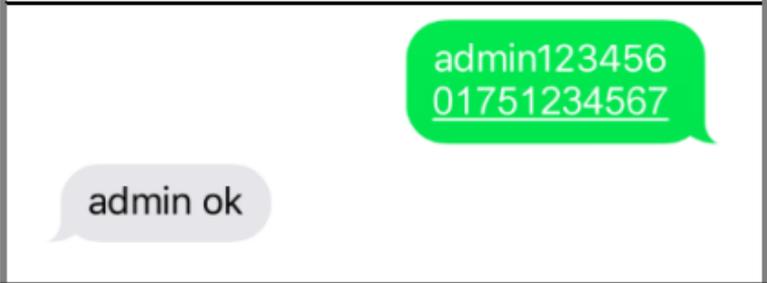
admin123456 01751234567

admin ok

SET THE PORTAL SERVER ADRESS AND THE PORTAL SERVER PORTS

adminip123456 82.223.7.208115

> adminip123456 82.223.7.208115

adminip ok

SET APN DATA

Please remember that the details APN_NAME, APN_PASSWORT and APN_BENUTZER are exemplary and must be adapted to the SIM card you are using. In the following three illustrations, we have stored the data of Blau.de as a sample. In the table beginning on page 99, you will find an overview of the possible APN data that suit you.

apn123456 APN_NAME

Through the APN, the GPS tracker knows which network provider must send the data to the location portal. With the respective APN you define the network access point.

> apn123456
> internet.eplus.de

apn ok

up123456 APN_BENUTZER APN_PASSWORT

> up123456 eplus gprs

user,password ok!

SWITCH GPS TRACKER IN GPRS MODE

gprs123456

> gprs123456

> GPRS OK!

SET STAND-BY MODE

less gprs123456 on

> less gprs123456 on

> Less gprs on ok

SET THE TIME ZONE
time zone123456 0

> fix300s***n123456

EXTENSION OF THE DATA LOG
protocol123456 white space 18 white space out

> protocol123456 18 out

change protocol success

TRANSMIT GPS-DATA IN CURVES
angle123456 white space 30

angle123456 30

angle ok

If you set different settings or exchange the above-mentioned information, we can no longer ensure a smooth communication with our positioning portal servers.

Product	Provider	APN	Username	Password
Blau	Blau	internet.eplus.de	eplus	gprs
Netzclub, kostenlos	Netzclub	pinternet.interkom.de	not required	not required
1&1 Notebook Flat	1&1	mail.partner.de	not required	not required
Simyo	Simyo	internet.eplus.de	simyo	simyo
Congstar	Congstar	internet.t-mobile	tmobile	tm
Telekom Vertrag	Telekom	internet.t-mobile	tmobile	tm
Telekom Prepaid	Telekom	internet-t-mobile	tmobile	tm
Aldi Talk	Aldi	internet.eplus.de	eplus	gprs
NettoKOM	Netto	internet.eplus.de	nettokom	nettokom

n-tv go!	n-tv	gprs.gtcom.de	not required	not required
ePlus	ePlus	internet.eplus.de	eplus	eplus
Vodafone	Vodafone	web.vodafone.de	not required	not required
Fyve	Fyve	web.vodafone.de	not required	not required
Tchibo	Tchibo	wapmobil1	not required	not required
Alice	Alice	internet.partner1	not required	not required
O2 Vertrag	O2	internet	not required	not required
O2 Prepaid	O2	pinternet. interkom.de	not required	not required

			not required	web
Tele Ring	Tele Ring	web	not required	web
A1	A1	A1.net	not required	ppp
yesss!	yesss!	web.yesss.at	not required	pp
One Orange	One Orange	web.one.at	web	web
Bob	Bib	bob.at	data@bob.at	ppp
Drei	Drei	drei.at	not required	not required
Sunrise.ch	Sunrise.ch	internet	not required	not required

(8.) If all this has worked, you will receive a confirmation by e-mail in the next step

Example:

Dear John Doe,

We are pleased to inform you that your locating device with the IMEI number 123412341234 has just transferred a first data record to our locating servers. This means that you can now log on as required with the access data you have already sent.

(9.) Then you can use the location portal with its numerous functions.

If you want to use the location portal beyond the test phase, you can simply extend this via our shop.

Click here to go to the shop:
» WWW.PAJ-GPS.DE »

10.3 DEREGISTRATION/DISCONNECT THE INTERNET CONNECTION

If you want to interrupt or disconnect the data transmission of your PROFESSIONAL Finder to the positioning portal, you can do this by switching off the data connection (switch off GPRS mode).

TURNING GPRS MODE OFF (DISABLE INTERNET CONNECTION)
sms123456
sms123456
SMS OK!
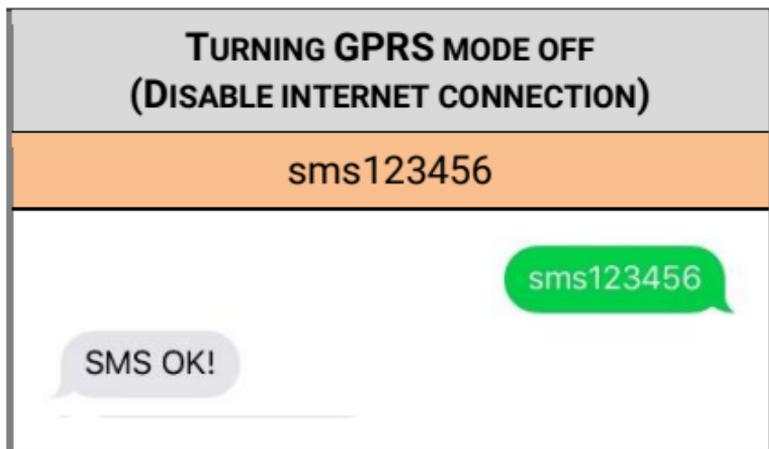
10.4 **TEST ACCESS AND PERMANENT USE OF THE PORTAL ACCESS**

The test access offered by us gives you an insight into all the functions and areas of the PAJ positioning portal. This version is free and limited to 14 days. After this deadline, the free test access will be terminated automatically.

For the permanent use of the PAJ location portal, you can create an individual access according to your needs in our shop (page 104).

11 Safety

Turning on
Do not switch on the unit if the use of GPS trackers is prohibited, it can cause interference or danger.

Interferences
In the case of mobile devices, malfunctions can result from interferences that can affect performance.

Turning off
Please note all bids and prohibitions and switch off the PROFESSIONAL Finder immediately in danger areas. Furthermore, it should not be used near medical devices, fuels and chemicals, as well as in explosive areas.

Waterproof

The PROFESSIONAL Finder is not protected against moisture and water. Please use and store it only in a dry environment.

Qualified customer service

The repair and installation of the PROFESSIONAL Finder must only be carried out by qualified personnel.

Monitoring

It is punishable to monitor third parties without their consent by means of a GPS tracker.

12   Notes for the disposal of waste batteries

The following note is intended for those who use batteries or products with built-in batteries and are no longer reselling them in their form (end-users).

FREE WITHDRAWAL OF USED BATTERIES

Batteries must not be disposed of via household waste. You are legally obligated to return old batteries, so that a proper disposal can be ensured. You can dispose of old batteries at a local collection point or in the trade on the spot. As a distributor of batteries, we are also obligated for the withdrawal of old batteries, whereby our obligation only restricts to the type of waste batteries which we have led or managed as new batteries in our assortment. Old batteries of the type mentioned above can therefore be returned to us by paying for a postage or delivered directly to our dispatch warehouse at the following address (free of charge):

12.1 MEANING OF THE BATTERY ICONS

Batteries are marked with the symbol of a crossed-out bin (see illustration below). This symbol indicates that batteries must not be disposed of with household waste. In the case of batteries containing more than 0.0005% by weight of mercury, more than 0.002% by weight of cadmium or more than 0.004% by weight of lead, the chemical name of the particular pollutant used is also underneath the refuse bin symbol. The abbreviation "Cd" means cadmium, "Pb" stands for lead, and mercury is abbreviated with "Hg".

$C\epsilon$ **FC** **RoHS** 🗑

Do You Have Questions?

Simply contact us,
We are here to help you!

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Germany

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Phone: **+49 (0) 2292 39 499 59**
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Best regards,
Your PAJ team