

Installation and operating instructions

TK108A car gps tracker



Introduction

In developing the products we offer, the manufacturers have acted with the utmost care and in accordance with international standards.

Warranty

We offer a 12-month warranty on the products, which is valid from the date of purchase. Keep the invoice or block you received at the time of purchase and / or the warranty card of the device, because you can only enforce your warranty claim if you have them. During the warranty period, we will replace any defective main unit, accessory or software of the product in the event of any defect attributable to a manufacturing, material or software defect. Subsequent repairs to the device or its accessories are not permitted by the manufacturer due to the design of the device.

The warranty does not cover a product (or accessory) that has been damaged or rendered inoperable due to attempts to modify or repair the software, physical impact, poor voltage, improper use.

To ensure proper, effective and safe use of the product, read the instruction manual carefully and keep it for future reference. Flexcom Kommunikációs Kft. Shall not be liable for any damage, product damage, short-term or long-term health damage that may occur as a result of use, repair, storage and transport other than those described in this manual.

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Protection of personal data

The product is a complete product as a combination of hardware and software components. For safe and correct use, proceed as described in this manual during installation and use. Keep the device or software out of the reach of unauthorized persons. Our company provides all technical and regulatory conditions to ensure that data management complies with legal requirements and that your data does not fall into unauthorized hands. We accept no liability for damage resulting from unauthorized use of the product and software.

Formats and notations

The following style settings are used in descriptions, guides, and other documents:

- Bold text** Name of product components, instructions, options, processes, services, user interface elements.
- Italic text* Links to other publications, emphasis.
- Courier text** System messages, internet addresses, document names.

Warning and cautionary signs:



Tips, advice, ideas.



Document download option.



General attention to information about the product or its operation.



Indication of situations with a lower risk to the user or the product (minor injuries, inconveniences).



Indication of situations which present a higher risk to the user (serious injury, possibly death) or which may cause damage or destruction of the product.

Product Description

The device combines several functions of accurate positioning, safety, monitoring, emergency alarms and full tracking. It supports SMS / GPRS / Internet data transfer functions and can be widely used in many areas of location-based services, traffic safety and management.

Based on its design and mounting, the device was designed by the manufacturer primarily for tracking (land, water or air) vehicles - as a result, its users are primarily the owners and drivers operating the vehicles. The device is based on the GSM / GPRS network and GPS satellite positioning. You can track your device using SMS messages or a web application.

Settings that affect the operation of the device can only be changed from another device (smartphone, computer) using the appropriate application or SMS commands - so users can be sure that the device always works according to the parameters they specify.

How to use

After inserting a SIM card and setting up via SMS or a mobile phone or PC application, the device is connected to the vehicle's electrical system. Once turned on, the GPS receiver and SIM card will automatically connect to the GPS and GSM networks (if available) and begin collecting position data, which can be queried using SMS or an Internet application.

To use the features of your device, you need a SIM card, similar to a mobile phone. The device communicates with the mobile service provider's network via SIM card, SMS or mobile phone or PC applications.

After inserting the SIM card and charging the battery or connecting it to the vehicle, you can make the necessary settings by sending an application or SMS (eg entering the device ID name, frequency of sending GPS position data, etc.).

When switched on

- The device continuously registers position data, which can be queried with SMS commands at a limited level.
- If you have a software subscription, the device sends the position data to the software service center - the processed results (eg map route display, route event list, real-time tracking) - can be viewed in the phone or computer application.

The subscription software provided by the distributor for the device greatly expands the range of features of the device. These extensions are only available in the mobile or PC application.

You will find detailed information on the installation, use, maintenance and decommissioning of the device in the following sections of the documentation.

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User's guide

Transport and storage

The packaging is designed to protect the product from minor physical impacts during transport. Be careful to avoid effects other than these.

The packaging of the product is not water, flame and heat resistant and only moderately pressure resistant. Therefore, do not store the package in a humid environment, within the scope of heat-emitting equipment, or place heavy objects on it.

Commissioning




The package includes the device and its accessories.



Unpacking



1. Open the box.
2. Remove the product.
3. Remove the retaining insert to protect the device.
4. Remove the accessories below.

Contents of the package

	1 tracking device
	1 external GPS antenna, 2m
	1 external GSM antenna, 2m

	1 vehicle connection cable
	1 installation instructions

Preparing the SIM card

As with mobile phones, a SIM card is required to operate the device. The device communicates with the mobile service provider's network via SIM card, SMS or mobile phone or PC applications.



You can purchase the card independently from your mobile service provider or, in the case of a software subscription, from your product distributor. If you received the SIM card from your dealer, you do not need to make any settings: the card is already set up, inserted in the device, switched on and ready for use.

If you have received the SIM card from your dealer, do not try to transfer it to another device (eg phone) and use it! The distributor (service provider) will reimburse the resulting costs or the correction of the resulting errors.

Settings for your SIM card

If you did not obtain the SIM card from your tracking device vendor, you must set it up before inserting and using it in the device, which you can do as follows.

Disable SIM card PIN and other functions

1. Insert the SIM card in your phone.
2. Among the setting functions of the phone
3. turn off the PIN code request, auto-reply and call forwarding options.

After turning off the above, insert the card into the tracking device. See the next section for instructions on how to insert the SIM card.

Setting up data traffic

If you want to operate the device not only via SMS, but also e.g. If you use the software tracking service provided by your dealer, you must activate GPRS (Internet) data traffic and enter the

appropriate network settings. To do this, you must send SMS messages from your phone to the phone number of the SIM card inserted in the tracking device, as shown in the table below.

The factory-set access password for the tracking device in the commands: 123456

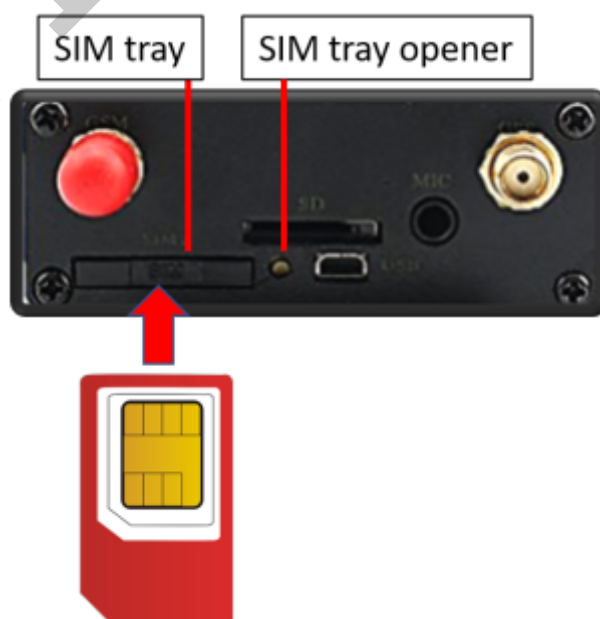
Setting	SMS content	Device response
Turn on GPRS data traffic	gprs123456	GPRS ok
Setting APN name	apn123456 APN-name	apn ok
	APN names for domestic service providers: Telenor: online or net Telekom: internet Vodafone: - in case of subscription: internet.vodafone.net - in the case of a top-up card: vitamax.internet.vodafone.net Digi: internet	
If your mobile network provider has not provided you with an APN username and password, you do not need to send the following SMS messages to the tracking device!		
APN username	apnuser123456 APN-username	apnuser ok
APN password	apnpasswd123456 APN-password	apnpasswd ok

Inserting the SIM card



Only standard size SIM cards can be used with this product. If you have a micro or nano SIM, use a card adapter!

Insert the SIM card into the device as follows:



Steps:

1. Using a pointed tool, press the SIM tray release button.
2. Pull out the SIM tray.
3. Insert the card in the correct position.
4. Push the tray back into place.

Installing the device

The device must be connected to the vehicle's electrical system.

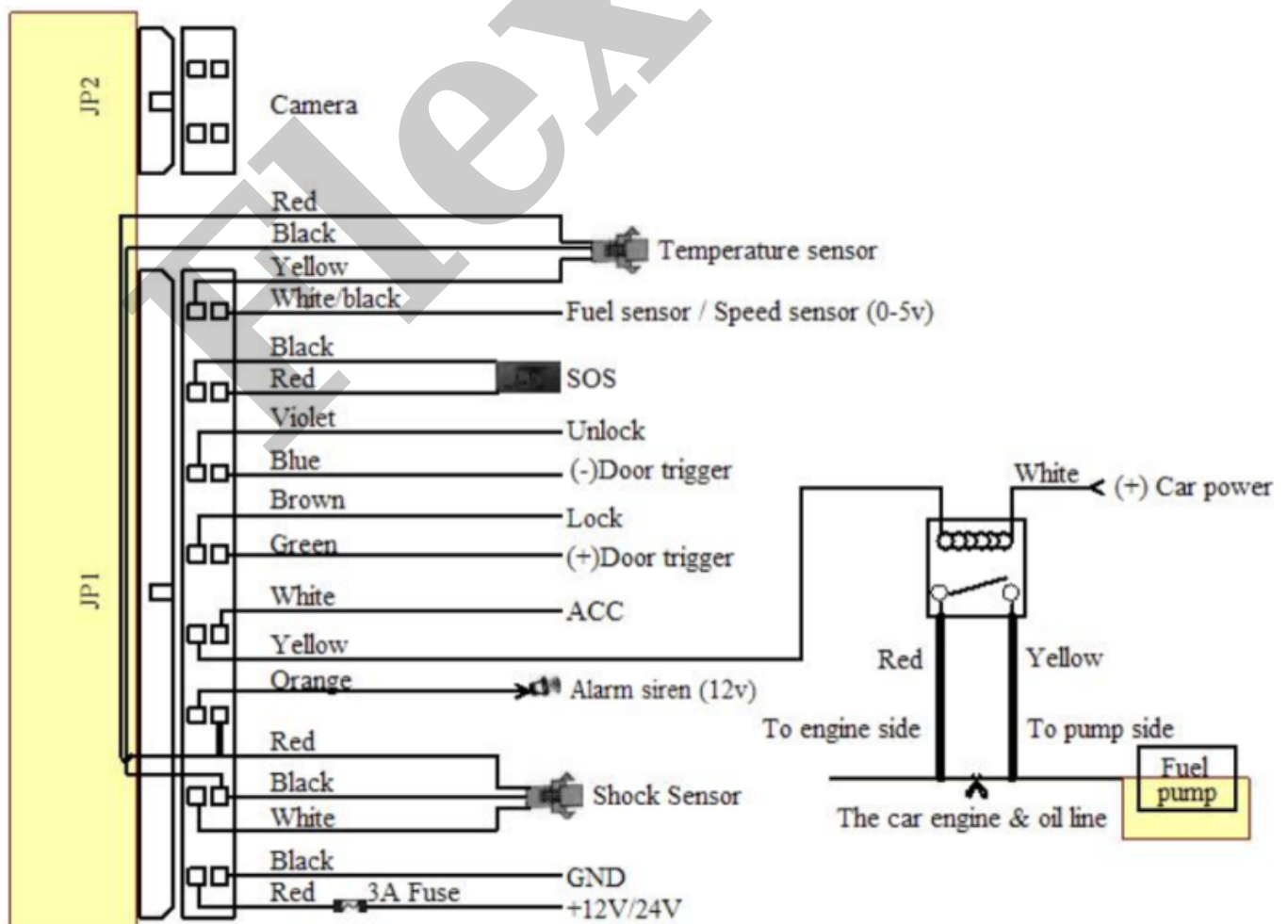


If you do not have the necessary expertise, have the device installed by a specialist! Position the device in such a way that it is not exposed to strong environmental influences (shock, strong vibrations, water jets, etc.).

Choose the type of measurement the device uses: speed or fuel level.

- To detect the speed of the vehicle, connect the white / black wire to the speed sensor signal wire of the car transmission and the black wire will be grounded.
- To measure the fuel level, connect the white / black wire to the fuel evaluator.

Using the wiring harness, connect the wires to the original car circuit as follows:



Turning on

Connect the red (positive, + 12 / 24V) and black (negative, ground) wires to the appropriate poles of the vehicle power supply. Wait approx. 1 minute until the appliance is put into operation. You can follow the process on the LED displays.

Turn battery on and off

The device has a built-in battery - this allows short (approx. Half an hour) operation without vehicle connection.

In addition to normal use, the device is powered by the vehicle's power source and also charges its internal battery. As an option, if the device is not installed in a vehicle, the battery can be charged via the USB connector using your phone charger and the included micro USB cable.

If you disconnect the device from the vehicle and want to operate it from its own battery, switch the battery on (or off) using the on / off button.

Installing and accessing an application

In order to operate the device and other services based on it, the distributor provides mobile and computer applications in the subscription system. The PC program is accessible via a browser at <https://gpspositions.net/map/>, and you can install the phone application on your phone in one of the following ways:

For Android phones

1. Open the Google Play app on your phone.
2. Search for „Flexcom” or „Flexcom tracking” on Google Play.
3. Install the tracking application.



or

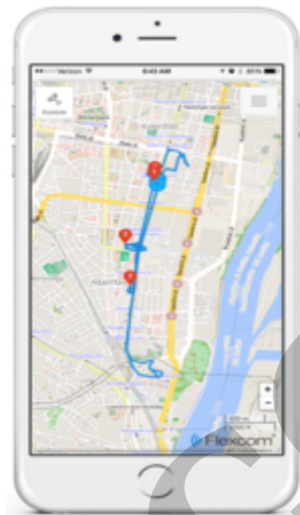


1. Scan the QR code shown here with your phone.
2. Open the web address decoded from this.

3. Install the Flexcom tracking application.

For iPhones

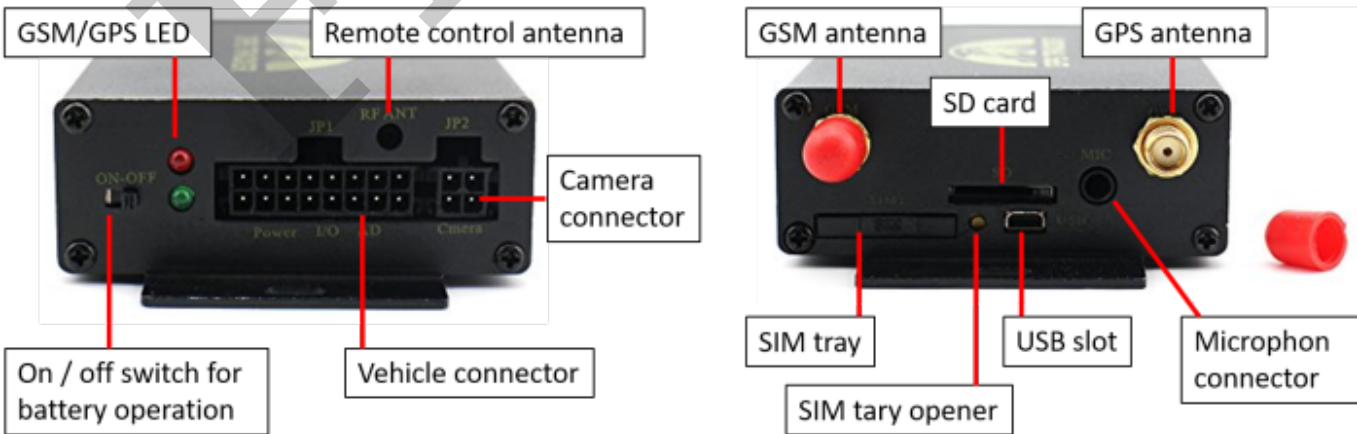
Use the browser on your phone to access the service (<https://gpspositions.net/map/>).



Use of the product

User interface

The connectors and controls on the device are located at both ends.



LED statuses

LED	Status
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Red	On	No GSM connection
	Flashes quickly, one per second	Mode: GSM
	Flashes slowly, once every three seconds	Mode: GPRS
Green	Off	No satellite connection
	Flashes quickly, one per second	Connected to a satellite network
Red-green	Flashes 3 times alternately	SD card detection

Mikro USB csatlakozó

Az USB csatlakozó elsősorban a készülék belső szoftverének frissítésére és az SMS parancsok helyett beállítások elvégzésére használatos – ezek csak kifejezetten hozzáértők számára ajánlottak. Ezen kívül a belső akkumulátor is feltöltésére is alkalmas.

Operation of the device

The device can be operated in the following ways:

1. using the software service provided by the distributor and the SIM card together, in addition to the software service provided by the distributor but using his own SIM card, or
2. without the service provider's software service, with your own SIM card.



The service provider provides a SIM card for the tracking device only if you subscribe to the software service. In the case of unsolicited use of the software, the user must provide the appropriate card with a data traffic limit (also).

With Distributor Software and SIM Card

In this case, you can receive the device in the ready state, no further settings are required to use it.

Separate software is available for setting or adjusting the operating parameters of the device, for retrieving information or for using more advanced services (eg map route display, waiting and travel points, diagrams, timetable, etc.). This is provided by the distributor in the form of a downloadable application on a desktop and tablet browser on an Android mobile phone as part of a subscription system.



To use the software, an active internet connection is required on your device (mobile phone, computer).

The software stores and processes the data sent by the tracking device to the service provider's center, from which the graphical and textual information is generated. Using the software triggers (sometimes very expensive) SMS and voice call communication with the device and provides tracking

and security services that go well beyond the basic functions of the device.

After launching the application in a browser or phone:

1. In the login window, enter the username and password you received in the email from the distributor or registered on its website.
2. In the interface that appears, select Help and review the information for using the software.
3. Software management information is available in its help.

With Distributor software but with own SIM card

After setting up and inserting the SIM card as described in the setup chapter, you must register the card. To do this, contact your software service provider (device vendor). From now on, the operation of the device is the same as described in the previous chapter.

Without software, with own SIM card

If you have subscribed to the reseller's software service, DO NOT use the standalone SMS communication method because



- redundant (the software has all the functions needed for tracking and settings),
- the software provider charges a separate fee for the possible elimination of possible operational anomalies caused by SMS commands,
- if you use your own SIM card in the device, SMS will incur extra costs,
- if you use your service provider's SIM card, your service provider will reimburse you for the cost of the SMS.

If you do not use (have not subscribed) to the software service provided by the dealer, you can only use the basic functions of the device - by sending SMS messages from your mobile phone to the phone number of the device's SIM card.

Setting options via software

A készülék működtetéséhez a Flexcom Kft saját fejlesztésű nyomkövető szoftvert is biztosít. A működést befolyásoló, a készülék telefonos SMS üzenetek útján elérhető gyári alapfunkcióit lefedő, de egyben azt lényegesen meg is haladó beállítási lehetőségeket a szoftver Beállítások, Parancsok és Riasztások funkciói biztosítják.



A beállítások és a kiadható parancsok a készülék típusától függenek. A konkrét lehetőségeket a szoftver a konkrét készülékhez igazítva bocsátja rendelkezésre. Erről további információkat a [szoftver használati útmutatójában](#) talál.

A készüléket más szolgáltató szoftverével is használhatja - ekkor az ebben a fejezetben



leírtak helyett annak a szoftvernek a protokollját kell figyelembe vennie!

A Flexcom Kft asztali vagy mobiltelefonos alkalmazásának használata esetén a nyomkövetéssel kapcsolatos beállítási műveletek az alábbi módokon érhetők el.

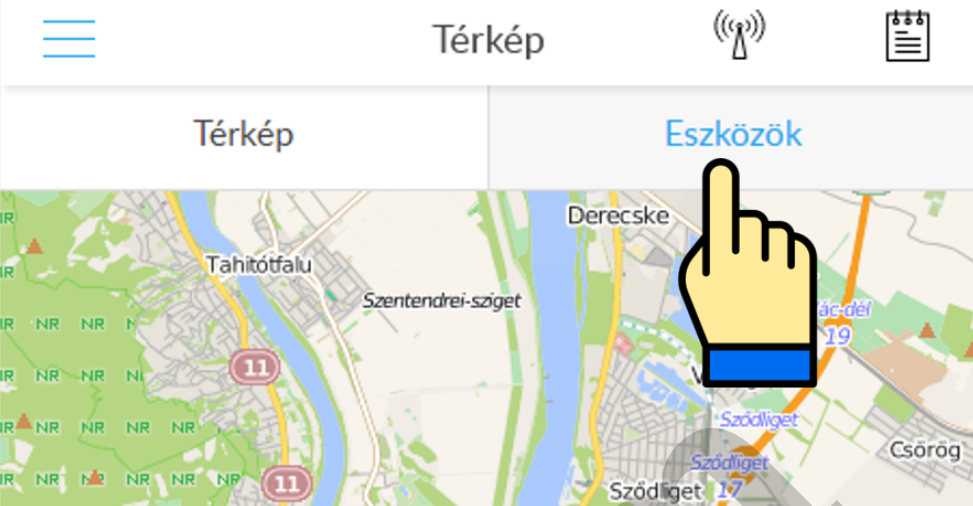
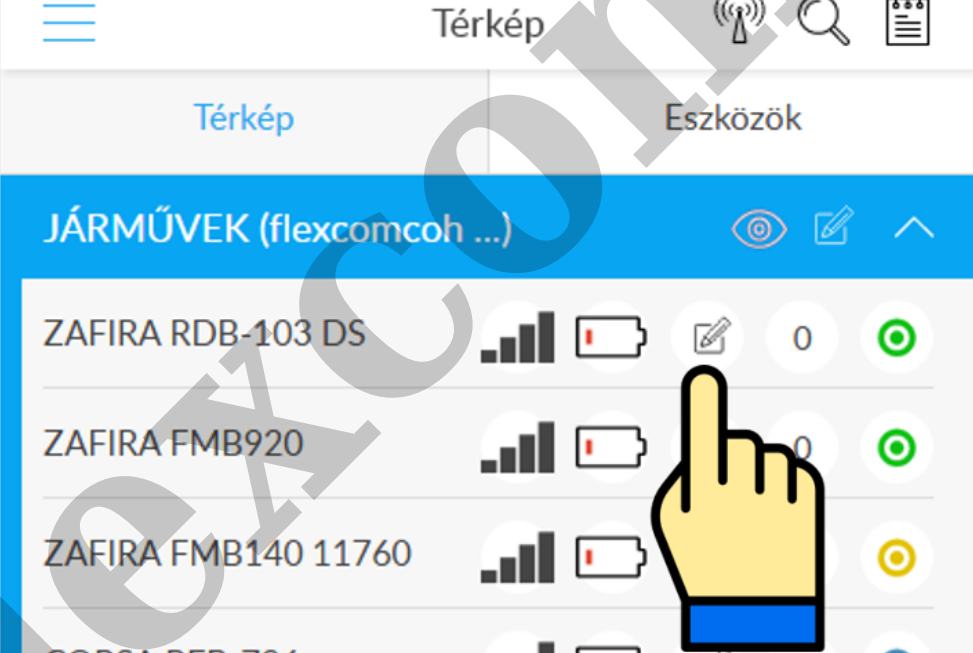
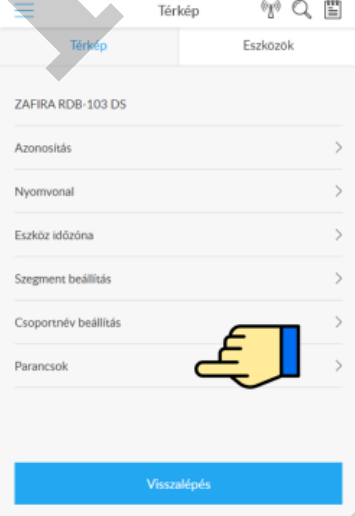
Asztali alkalmazás használata esetén:

Válassza ki a kívánt készüléket a térképen vagy a menüben.

A Beállítások vagy Parancsok feliratú gombra kattintva kiválaszthatja a kívánt általános beállítást vagy működést.

Mobil alkalmazás használata esetén:

Az alkalmazás menüjében válassza a Térkép menüpontot.

<p>Váltson át az Eszközök panelre.</p>	
<p>Keresse meg az eszközök listájában a készüléket és koppintson az azonosító mellett levő Beállítás ikonra.</p>	
<p>Válassza ki a kívánt beállítást vagy parancs küldése esetén a Parancsok menüpontot.</p>	

Control the device with SMS commands sent from a mobile phone

The factory-set access password for the tracking device in the commands: 123456

General settings

Query the position of the device

Description	Device response
Call the phone number of the device's SIM card from your phone. After receiving the call, the device cancels it and then sends the data back in an SMS message: latitude and longitude, current speed, time and link, which, when clicked / tapped, will display the device's indicator on the Google map in our phone's browser. If the device cannot connect to GPS satellites (eg inside a building or in another shaded area), use the cell information of the GSM transmission towers to determine its position (LBS, Location Based Service). Its accuracy depends largely on the distance from the towers and the mobile network coverage.	Coordinates: lat:22.553341 long:113.903418 speed:000.00 Time: T:24/05/11 11:16 Google maps link: http://maps.google.com/maps?f=q&q=22.553341,113.903418&z=16

Automatic tracking

You can set your device to send position data continuously under certain conditions.



Any of the auto-tracking settings discussed below can result in a series of SMS messages between the tracking device and the owner's phone - this can have significant cost implications.

If you want to operate the device in this way, it is definitely recommended to use the service provider's software tracking service, which provides these functions - regardless of the frequency and amount of data transmissions - for a fixed monthly fee.

Function	Description	SMS message	Device response
Send position data at specified intervals, in specified quantities.	The device sends position messages every XXX seconds until you cancel the command. The value of the quantity (YYY) parameter can be up to 255.	fixXXXsYYYn123456 For example: fix030s005n123456	Position data

Send position data at specified intervals, without quantity limit.	A készülék XXX másodpercenként YYY darab pozíció üzenetet küld. Az XXX időintervallum minimum 20 másodperc lehet.	fixXXXs***n123456 For example: fix030s***n123456	Position data
Sending position data depending on the distance traveled.	The device can be set to send position data automatically after each distance unit traveled. The device continuously sends the position data until the command is canceled. Before sending the command, set the device to „Send position data at specified intervals without quantity limit” mode (see previous point).	distance123456 <distance in meters> Például: distance123456 0050 (send position data in every 50 meters).	Position data
Turning off auto-tracking	Disable any of the above automatic tracking settings.	nofix123456	

Take a photo

To use this feature, the APN information on the SIM card must be preset. Then send the following command via SMS to the phone number of the device: **photo123456**

The device takes a photo of your surroundings and then enters the Internet address where you can tap it to view it in an SMS message.

Stopping the vehicle remotely

Once the device is connected to the vehicle, you have the option of stopping it remotely and preventing it from restarting.

Immediate shutdown

1. Send the **quickstop123456** setup SMS to the device. This activates the general setting, which results in the next stop message sent in point 2 stopping the vehicle immediately. You can make this setting earlier.
2. Send **stop123456** SMS to the phone number of the device. If the current setting of the device was previously “quickstop”, the vehicle will stop immediately (block the ignition) and this will remain until the unlock message.

Speed dependent stop

Immediate remote stop of the vehicle, regardless of speed, can also cause an accident. To avoid this,

the device can be set to stop the vehicle only when its speed is below 20 km / h.

1. Send the **noquickstop123456** setting SMS to the device. This activates the general setting, which will result in the next message sent in step 2 causing or not to stop the vehicle depending on its speed. You can make this setting earlier.
2. Send the SMS **stop123456** to the phone number of the device. If the current setting of the device was previously „noquickstop“, the vehicle will be stopped if its speed drops below 20 km/h.

Unlock vehicle

To unblock a remotely stopped vehicle, send an SMS **resume123456** to the device.

Low battery voltage alarm

Description	SMS message	Device response
You can set an alarm in case the battery level drops too low. When turned on, the device sends 2 alarms at 15-minute intervals when the device battery voltage is approx. It drops below 3.5V. The setting is activated by factory default.	Turning on: lowbattery123456 on Content of the alarm message: „Low battery <vehicle position>”. Turning off: lowbattery123456 off	

External power off alarm

Description	SMS message	Device response
If the device is connected to an external power source (eg vehicle), you can set an alarm if it is switched off. The device sends the message to the administrator telephones repeated every 3 minutes until the power supply is switched off or the alarm is deactivated from one of the telephones. The alarm is switched off at the factory.	Turning on: extpower123456 on Content of the alarm message: „Power alarm <vehicle position>”. Turning off: extpower123456 off	

Satellite connection loss alarm

Description	SMS message	Device response
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<p>You can set the device to send an alert to the administrator phones if the satellite connection is lost. The alarm is switched off at the factory.</p>	<p>Turning on: gpssignal123456 on Content of the alarm message: „No gps <vehicle position>”. Turning off: gpssignal123456 off</p>	
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Move alarm

Description	SMS message	Device response
<p>If the device (vehicle) has been stationary for 3-10 minutes and the device is connected to the satellite network, you can set it to send an alarm to the administrator phones when it moves.</p>	<p>Turning on: move123456 XXXX where XXXX = displacement in meters. For example: move123456 0100 in case of device alarm sends if the amount of displacement exceeded 100 meters. The content of the alarm message: "Move <vehicle position>". Turning off: nomovel123456</p>	

Speed alarm

Description	SMS message	Device response
<p>You can set the device to send an SMS alert if the vehicle speed exceeds the specified limit. The speed limit must be entered in the form XXX, if less than 100, the leading zero must also be written (eg 070).</p>	<p>Turning on: speed123456 sebességhatár For example: speed123456 070 A riasztó üzenet tartalma: „Speed 70! <vehicle position>” Turning off: nospeed123456</p>	

Fuel and oil consumption alarm

Description	SMS message	Device response
If the fuel consumption while driving exceeds the normal level or the oil level is low after stopping the engine, the device sends the message oil: xx% + position data to the administrator's phone every 3 minutes. Meanwhile, the horn (or siren) signals 20 times.	Turning on: oil123456 Turning off: nooil123456	

Temperature alarm

Description	SMS message	Device response
If the device detects a temperature outside the specified range, it sends an alert SMS every 3 minutes. Lower limit maximum: -50° Upper limit maximum: + 125°	Turning on: temperature123456 xxxC,yyyC where xxx: lower limit yyy: upper limit For example: temperature123456 -020C,060C Turning off: notemperature123456	"Temperature ok" or "Notemperature ok"

Standby mode and related alarms

Standby mode

Description	SMS message	Device response
The device can be switched to standby mode when the vehicle's engine is stopped (ignition off) and all doors are closed. In standby mode, the alarms discussed below are automatically activated.	Turning on: arm123456 Turning off: disarm123456	„Tracker is activated" or „Tracker is deactivated"

Shock alarm

Description	SMS message	Device response
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<p>Send an alarm to the phone if the vehicle moves, overturns or is hit. The sensitivity of the sensor can be adjusted in 3 levels.</p>	<p>To set the sensitivity, send the following in advance SMS message to the device: **sensitivity123456 X** where - X = 1 (alarm even in case of weak effect) - X = 2 (alarm only in case of moderate effect) - X = 3 (alarm only in case of strong effect)</p> <p>and after this</p> <p>Turning on: shock123456 Content of the alarm message: „Sensor alarm <vehicle position>”</p> <p>Turning off: noshock123456</p>	
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The following two alarms are automatically activated when the standby mode is switched on and deactivated when they are switched off.

- **Door open alarm:** The device sends a “Door alarm + <position>” message to the administrator phone every 3 minutes when the vehicle door is opened and the siren sounds every 20 seconds for 20 seconds while the door is open.
- **Start alarm:** The device sends an “ACC alarm + <position>” message to the administrator phone every 3 minutes and the siren sounds every 20 seconds for 20 seconds while the ignition is on.

If the device detects a door open, ignition, or SOS alarm event, it automatically takes a photo, which is stored on the SD card.

Troubleshooting and repair

Conditions for safe use of devices

Information for people with long-term health problems or disabilities

- 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.
- Their casing is made of plastic or metal, which currently has no known health risk (e.g., toxic or allergenic effects).

Technical service life of products

- If the device contains a battery, its life is usually approx. 3 years.
- If you find that the operating time is significantly reduced, replace the battery as soon as possible to avoid malfunction.
- Have the battery replaced by a qualified service technician - contact your product dealer for information.

Possible problems with proper use

- Cracks, breaks or deformation of the cabinet may cause skin injury or injury to the user's hands.
- Restrictions on the use of products
- Do not use the products under water or expose them to strong water jets or excessive vibration.

Maintenance

- The products do not require regular technical maintenance.
- Disconnect the device from the charger before cleaning. Do not use abrasives or cutting or abrasive tools for cleaning.

Decommissioning

- Products do not contain harmful, toxic substances.
- Their internal components, outer casings and accessories are not made of or only slowly degradable materials - they must be treated in accordance with the appropriate waste disposal procedure.

Identifying problems and possible solutions

Symptom	Possible cause	Solution
The device does not turn on or turns off immediately after turning it on.	The battery may be exhausted.	Charge the battery.
Phone calls and / or SMS communication between the device and the phone do not work.	No GSM connection.	Check the strength of the GSM connection. If the LED is solid amber, there is no connection to the service provider's network. You may be in a shaded area - change position.
	The SIM card is defective or there is a contact error.	Remove the SIM card, or clean it with a soft eraser or stylus and reinsert it. If it still does not work, have it tested by a professional (eg a mobile service provider).
Phone application services do not work.	Your device, phone or none of them have a GPS satellite and / or GSM / Wifi connection.	Check GPS, GSM and wifi connection. If the LED is solid yellow or blue, there is no satellite and / or mobile service connection. Also check the wifi connection on your phone. Look for a place that is not shaded by trees, buildings, or other landmarks, or a place where the signal strength is higher.
	Service provider system error	If you do not find a problem with the above, there may be a system error with your telephone application provider.
The device does not respond to SMS commands	APN setting error	Check the APN settings of the tracking device.
	There may be an incorrect SIM card in your device.	A card with voice call, SMS and GPRS data traffic is required for the device to work properly.
SMS mode works, but the app does not.	The device may be in sleep mode.	Check the operation of the device. For example: send an alarm SMS to the device (see Chapter 5).

Troubleshooting and warranty repair

If you can identify the error based on the above or the recommended solution does not work, contact your dealer:

Contact

Flexcom Communication Ltd.

2151 Fót, Szent Imre str. 94. HUNGARY

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Mobile 1: +36 70 3333 525

Mobile 2: +36 70 3333 527

Phone service: (Monday-Thursday) 9.00-15.00

During the warranty period, if the conditions of the warranty have not been violated, the distributor will take care of the professional investigation of the cause of the failure, repair of the error or replacement of the device.

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Decommissioning

Disposing and destroying the device

If you decide to stop using the appliance, do not throw it away with the normal household waste. The device is a complex structure and its components contribute to environmental problems to varying degrees.

- The device has a printed circuit board made of copper, an epoxy resin based board, which is coated with gold in places. It is made using gallium arsenide, antimony, beryllium, brominated flame retardants, cadmium, lead, nickel, palladium, silver, tantalum and zinc, of which flame retardants and lead are the most dangerous to the environment.
- Copper, cadmium, nickel and zinc were used to make the battery.
- The cover is made of polycarbonate plastic, which is difficult to recycle, its material may also contain brominated flame retardants, which are particularly dangerous for the environment.
- The charging cable consists mainly of plastic-coated copper wires, but may also contain gold, cadmium and brominated flame retardants.

In case of improper handling, the above substances are more or less harmful to the environment. Therefore, if you dispose of the device, dispose of the device as electronic waste, hand it in to a specialist waste disposal service or dispose of it in a container for the collection of this type of waste.

Disposal of packaging

The packaging of the device (box and inner packaging materials) was made using paper and various plastics. The box paper, the internal sealing profile and the bags protecting the device should be disposed of as plastic waste.