

Installation and operating instructions

ICAR IK101A tracking smart watch



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.

The manufacturer has designed this GPS smartwatch with large control buttons to track adults and the elderly, with the help of which it is possible to check the position of the wearer remotely on his mobile phone without disturbing him. With the help of the SIM card in it, the GPS tracking watch can be called in the same way as a mobile phone. It has a built-in microphone and speaker, GPS and GSM antenna, blood pressure and heart rate monitor. The device can be operated with the SIM card of any GSM service provider.

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

You can use the device after charging, inserting the SIM card, and setting it up via SMS or a mobile phone or PC application. The device automatically connects to the GPS and GSM networks using the GPS receiver and the SIM card (if available) and starts 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, 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 further sections of the documentation.

Safety and handling

Conditions for safe use of the product

Information for people with long-term health problems or disabilities

1. 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.
2. The cover is made of plastic, which currently has no known health risk (eg toxic or allergenic effect).

Technical product life

1. Battery life is approx. 3 years.
2. If you find that the operating time is significantly reduced, replace the battery as soon as possible to avoid malfunction.
3. Have the battery replaced by a specialist garage - contact your product dealer for information.

Possible problems with proper use

1. Cracks, breaks or deformation of the cabinet may cause skin injuries or injuries to the user's hands.

Restrictions on the use of the product

1. It may cause injury to the wearer and others while playing for a team or martial arts - its use is not recommended.
2. It is not recommended to wear it when working with moving, rotating equipment either, as they may cause a serious accident if they get caught in the device or its strap.
3. The watch is moderately waterproof, do not keep it under water for a long time (swimming, swimming).

Commissioning, inserting or removing a SIM card

1. When inserting the SIM card and screwing on the protective cover or removing the card, handle the small, pointed screwdriver and tweezers carefully - slipping them may result in injury.

Information on safe use

1. As the product can be used by children, take special care not to take it in their mouths, chew it or swallow it.
2. The device is capable of (limited) communication and location with the wearer - but is not a substitute for adult supervision.

Maintenance

1. The product is of a technical nature and does not require regular maintenance.
2. Disconnect the appliance from the charger before cleaning. Do not use abrasives or cutting or abrasive tools for cleaning.

Decommissioning

1. The product does not contain harmful, toxic substances.
2. Its internal components, outer casing and accessories are not made of, or only slowly degraded, materials - an appropriate waste disposal procedure must be followed.

Health Risks

When used as intended, the product does not present a health hazard to humans, either in terms of materials, components or their function.

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Technical parameters

Physical characteristics

Parameter	Value
Dimensions (mm)	W: 35, L: 55, H: 15
Weight (g)	47
Humidity	from 5% to 95% (none condensing)
Water resistance	IP67 (dust and water resistant, the latter up to 1 m and 30 minutes)

Memory

Parameter	Value
Built-in	32 Mbyte RAM, 32 Mbyte ROM
SD card	Nincs

Energy supply

Parameter	Value
Battery	Li-ion polimer 3.7V 400mAh
Charging current	5V/1A via USB
Charging time	approx. 3 hours

Operating time

Parameter	Value
Standby time	approx. 72 hours 100%, approx. 40 hours at 50% GSM signal level

Network

Parameter	Value
GNSS	GPS / LBS
Type of data traffic	GSM / GPRS (2G)
SIM card	Micro SIM with a data frame of at least 30 Mbytes / month. Data traffic only works in GPRS mode.
GSM frequencies	850, 900, 1800, 1900 MHz
GSM chip	CB900
GSM signal strength measurement	Yes
GPS chip	MTK2503D
GPS sensitivity	-
GPS accuracy	20 m

Communication

Parameter	Value
SMS	Yes
TCP	Yes

Sensors

Parameter	Value
Blood pressure and heart rate	Yes

Motion sensor during sleep	Yes
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Interface

Parameter	Value
GSM antenna	Internal
GPS antenna	Internal
Built-in microphone	Yes
Built-in speaker	Yes
SOS button	Yes
Chat button	Yes

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User's guide

Transport and storage

The packaging is designed to protect the product from the usual levels of physical impact 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 keep the box in a humid environment, within the range of heat emitting equipment, or place heavy objects on it.

Commissioning



The package consists of a box containing the device and its accessories.

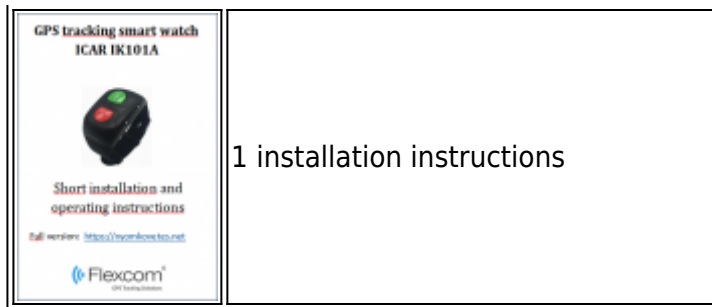
Unpacking



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 ICAR IK101A tracking smart watch
	1 USB charging cable



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 need to 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 message	Device response
Enter the APN name	pw,123456,apn,apn-name,apn-username,apn-password,MCC/MNC code#	apn ok
	<p>APN names for domestic service providers: In case of problems, check the exact settings with your mobile service provider!</p> <p>Telenor: online or net Example: pw,123456,apn,online,,,21601# OR pw,123456,apn,net,,,21601#</p> <p>Telekom: internet Example: pw,123456,apn,internet.telekom,,,21630#</p> <p>Vodafone: - in case of subscription: internet.vodafone.net - in the case of a top-up card: vitamax.internet.vodafone.net Example: - pw,123456,apn,internet.vodafone.net,,,21670# - pw,123456,apn,vitamax.internet.vodafone.net,,,21670#</p> <p>Digi: internet Example: pw,123456,apn,internet,,,21603#</p>	
<i>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.!</i>		
APN username	apnuser123456(space)APN-username	apnuser ok
APN password	apnpasswd123456(space)APN-password	apnpasswd ok

Inserting the SIM card



Only micro-sized SIM cards can be used with this product.

Insert the SIM card into the device as follows:



Steps:

1. Unscrew the protective cover.
2. Insert the card into the slot on the left side of the watch, chip up, in the direction of the buttons.
3. Screw the protective cover back on.

Charging the battery

The watch is powered by a built-in battery, which needs to be charged at different intervals depending on the intensity of use. The magnetic charging cable connector is located on the back of the device. The correct connection of the cable is facilitated by the attraction / repulsion of the magnet.



During charging, the LED on the front of the watch flashes red every 1 second; when the battery is fully charged, the blinking turns solid green. The charging time is approx. 3 hours.

If the LED display flashes red every 5 seconds, the battery is running low and needs to be charged.



A charger with a maximum current of 1 A may be used for the clock with a voltage of 5V! Chargers with a higher capacity can damage the battery.

Application installation, access

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.

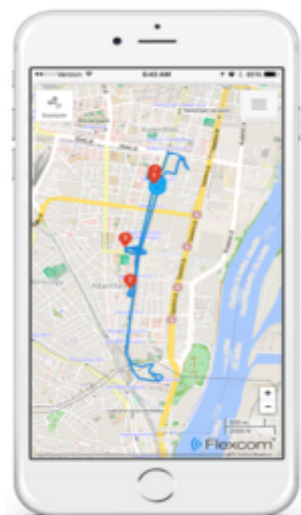
or



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 of the device are located at both ends, under a protective cover, and on one side of the microphone.



SOS button (red)

The SOS button has several functions:

- Turn on the clock
- Start a help request, end a conversation
- Start blood pressure and heart rate measurement

Talk button (green)

The button is used to operate functions related to voice recordings (15 seconds) and conversations.

LED

Green or red indicators related to the status and operation of the device.

Red:

- Flashes 1 every 5 seconds: low battery (<20%)
- Flashes 1 per 1 second: during charging.

Green:

- Flashes for 5 seconds: incoming call indication.
- steady light: reached the charge level when charging.

The red and green lights flash alternately during heart rate and blood pressure measurements. When the measurement is complete, if it was successful, green, if it failed, the red light will illuminate for 3 seconds.

Heart rate and blood pressure sensor

Sensor for measuring heart rate and blood pressure.

Charger connector

Magnetic connector for the battery charging cable provided by the manufacturer.



Be careful not to accidentally press the buttons while using or storing the watch, as this may cause unintentional or malfunctioning.

Switching on and off

The clock can be switched on or off using the SOS button. Hold down the button until the clock beeps.



Successful switching on or off is confirmed by the clock sounding ascending or descending.



Switching off with the SOS key is only possible if no SOS phone numbers have been set up yet (see chapter SMS messages). If they are already present, pressing and holding the button will result in an SOS call to the specified number or numbers, and can be switched off from the application by sending a switch-off command.

Control the device with buttons

The basic function of the device is monitoring. Related operations can be activated by pressing the red and green buttons for different durations and densities.

Operation	Implementation
Send SOS alert	The SOS button is pressed for approx. After pressing and holding for 3 seconds, the device will start dialing the previously entered numbers in sequence and, depending on the setting, will also send an SMS message. If a call fails, it continues with the next one until it is successful or you have tried all the numbers twice.
Heart rate and blood pressure measurement	By pressing the SOS button three times, the watch measures blood pressure and heart rate and sends the results to the central system, from where the measured value can be read using the application.
Time	When the red SOS button is pressed once, the clock announces the exact time.
Call the watch from phone	You can call and talk to the phone number of the watch's SIM card from a central number. However, only SOS calls can be made from the watch.
Hívás fogadása	Ha az órát telefonról hívják, a zöld gomb egyszeri megnyomásával fogadható a hívás.
Interrupt conversation	Press the SOS button once to end the ongoing conversation.

The clock settings and functions can be set or activated via the central system via the Internet or by sending messages to the device's SIM card. Messages can be sent to the device using desktop or mobile phone software.



The software is provided by the distributor of the device (Flexcom Kft) in a subscription system. The software expands the clock tracking service with map position and real-time or backward route display, as well as advanced data delivery capabilities.

For detailed information, please visit <https://nyomkovetes.net>.

The device can be operated with other compatible software - in this case, instead of the information described in this chapter, the information provided by the manufacturer / operator for that software applies.

Normal 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

When using the desktop or mobile application of Flexcom Kft, the setup operations related to tracing can be accessed in the following ways.



The settings and commands that can be issued depend on the type of device. See the rest of this guide for information on options for this device.

When using a desktop application:

Select the desired device on the map or in the menu.

Click the Settings or Commands button to select the general setting or behavior you want.

Devices

Filter devices

MOBIL (flexcomcoh ...)

Watch

Info

Route

Commands

Setup

Reports

Message

Diagram

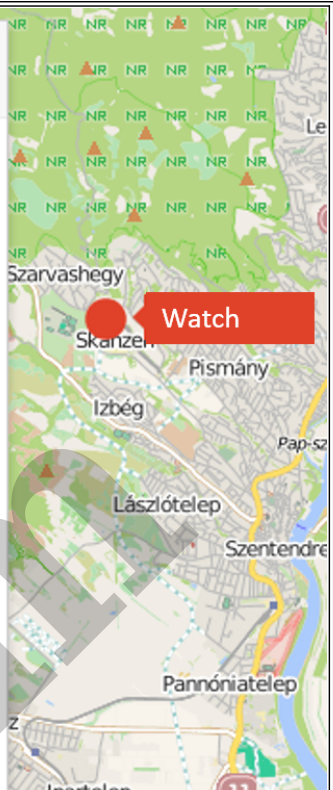
Alarm

Name

ID


Watch

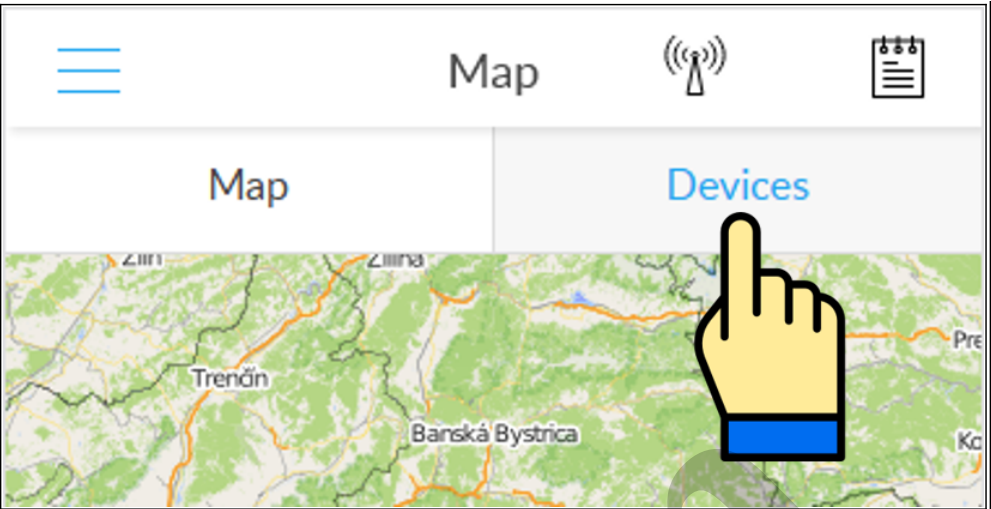
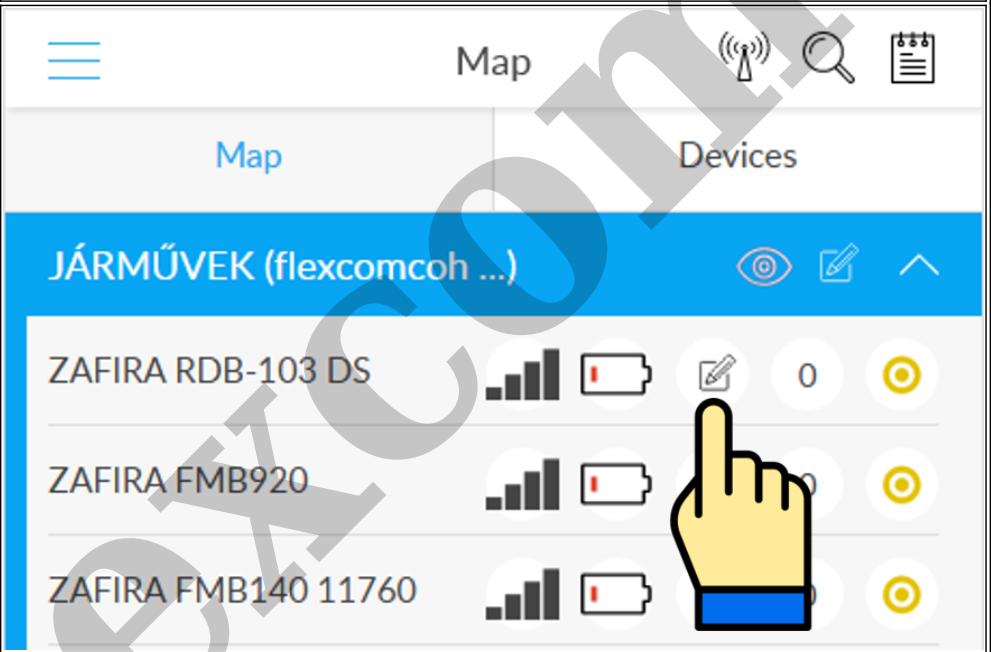
9250000134



When using a mobile application:

From the application menu, select Map.



Switch to the Tools panel.	 <p>The screenshot shows the top part of the application interface. At the top, there's a header with a menu icon, the word 'Map', a signal strength icon, and a list icon. Below this is a tab bar with 'Map' and 'Devices'. The 'Map' tab is currently selected, showing a map of Slovakia with locations like Zilina, Trenčín, and Banská Bystrica. A large hand icon with a blue cuff is pointing at the 'Devices' tab.</p>
Find your device in the list of devices and tap the Setup icon next to the ID.	 <p>The screenshot shows the 'Devices' tab selected. Below the header, there's a blue bar with the text 'JÁRMŮVEK (flexcomcoh ...)' and icons for eye, edit, and expand. Below this is a list of devices: 'ZAFIRA RDB-103 DS', 'ZAFIRA FMB920', and 'ZAFIRA FMB140 11760'. Each device entry has a signal strength bar, a battery icon, a setup icon (pencil), a status icon (0), and a target icon. A large hand icon is pointing at the setup icon for the 'ZAFIRA FMB140 11760' device.</p>
Select the desired setting or, when sending a command, select Commands.	 <p>The screenshot shows the 'Commands' menu. At the top, there's a header with 'Map' and 'Devices' tabs. Below this is a list of settings: 'ZAFIRA RDB-103 DS', 'Identification', 'Path', 'Setting time zone', 'Set up segment', 'Group name setting', and 'Commands'. Each item has a right arrow. A large hand icon is pointing at the 'Commands' item. At the bottom, there's a blue 'Back' button.</p>

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

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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.