

CONTENTS

1. PRODUCT OVERVIEW	3
2. WARNINGS.....	4
3. INTRODUCTION.....	4
4. WORKING MODELS.....	5
4.1 PERGO TECHNICAL SPECIFICATIONS	5
5. PERGO INTRODUCTION	8
5.1 OVERVIEW	8
5.1.1 External Power and Connection Socket	8
5.1.2 GPS Antenna	8
5.1.3 On/Off Button	8
5.1.4 Internal Microphone.....	9
5.1.5 Illuminated Leds	9
5.1.6 Internal Li-ion Battery.....	10
5.1.7 GSM-SIM Card Socket.....	10
6. INSTALLATION	11
6.1 ATTENTION ! IMPORTANT POINTS DURING INSTALLATION	11
6.2 CABLE CONNECTIONS.....	11
6.2.1 POWER CABLE (RED).....	12
6.2.2 EARTH/GROUND CABLE (BLUE).....	12
6.2.3 IGNITION CABLE (WHITE)	12
6.2.4 PANIC (EMERGENCY CASE) CABLE CONNECTION (GREEN)	12
6.2.5 DATA CABLE CONNECTION (YELLOW) [RX-COM2], BROWN [TX-COM3]	12
6.2.6 INPUT (GREY).....	12
6.2.7 OUTPUT (PINK)	13
6.2.8 PLACING THE INTERNAL BATTERY	13
7. OPERATION OF THE DEVICE	13
7.1 DESIGNATING GSM NUMBER TO COMMUNICATE WITH DEVICE	13
7.1.1 DESIGNATING GSM NUMBER TO COMMUNICATE WITH DEVICE (F60-SB)	13
7.1.2 CANCELLING DESIGNATED GSM NUMBER TO COMMUNICATE WITH DEVICE (F60-SB)	14
7.2 UTILISING THE ELECTRONIC PARK (E-PARK) FEATURE	14
7.2.1 SETTING DEVICE TO PARK POSITION	14
7.2.2 DISABLING DEVICE PARK POSITION.....	15
7.3 SENDING EMERGENCY CASE MESSAGE.....	15

7.4 INQUIRING VEHICLE POSITION INFORMATION THROUGH SMS 16

7.5 VOICE TRANSFER FROM DEVICE LOCATION 17

7.6 UTILISING THE INPUT/OUTPUT FEATURE OF THE DEVICE..... 17

7.7 RECEIVING SPEED LIMIT AND RAPID ACCELERATION/SLOWING VIOLATIONS..... 18

7.8 INFORMATING WHEN THE VEHICLE REACHES GEOGRAPHICAL LOCATIONS SPECIFIED (F60-SN)..... 18

7.9 REPORTING MILEAGE (F60-SN)..... 18

7.10 REPORTING VEHICLE RUNNING TIME (F60-SN) 18

7.11 REPORTING IDLE RUNNING TIME (F60-SN) 19

7.12 SWITCHING THE FIXED DEVICE TO MOBILE MODE..... 19

7.13 HOW AND WHERE THE DEVICE CAN BE TRACKED..... 19

Dear Customer,

We thank you for choosing this product and hope that you will be satisfied with it.

Best Regards,

Fideltus A.Ş.

OVERVIEW TO THE MANUAL

This manual contains information necessary to install, use and preset the Fideltus Vehicle Tracking and Security System (hereinafter referred to as PERGO) hardware. Please read this manual carefully before installing and using the device.

Please remember that failure in complying with the information contained herein shall void Fideltus' responsibility and the warranty of the PERGO product.

Please keep this manual, as it is an important source for the conscious and secure use of the PERGO product.

1. PRODUCT OVERVIEW



PERGO Device
Model F60
Internal Li-ion Battery



Vehicle Fixed Installation Cable



Vehicle lighter socket and 220V power adapter connection apparatus



Users Manual

2. WARNINGS

Please read the following carefully before using your device. The company declines all responsibility for issues that may arise from failure in reading the manual.

- Do not use the device for purposes other than specified in this manual.
- Do not subject the device to strong impacts and swing. Otherwise the device may be harmed.
- Never open the interior lid of the device. Do not tear the warranty labels. This will void the warranty.
- Take care not to get the device wet. Do not spill liquids on the device. This may result in irreparable damage. If the device has been exposed to liquids in any way, remove the power plug, immediately remove the battery, dry the liquid with an air pump and contact an authorized service. Never use volatile solutions such as alcohol and petrol for cleaning.
- Do not leave the device in damp, hot and highly vibrating environments and do not expose to strong magnetic fields.
- While fitting and removing the connection socket, please hold the box of the device firmly. Especially when removing the connection socket, remove it by pressing on the catches at the edges of the socket. Otherwise you may damage the connection socket.
- Keep away from strong magnetic fields as electrostatic discharge may stop or damage the device.
- Do not directly connect the device to power higher than 35 V DC. Use an adapter for 220V.
- Do not attach hardware that has not been approved by the producer.
- External circuit breaker (fuse) should be T 2A.

3. INTRODUCTION

PERGO is a security system software and hardware developed in Turkey by Turkish engineers, which is capable of tracking the location of anything (vehicle, humans, objects, animals) to which it is attached, of enabling communication between the object to which it is attached and the tracking centre, and of providing vehicle and personal security.

PERGO has been designed mainly to ensure the personal and property safety of its users.

PERGO is not only a vehicle tracking system. The personal and property safety of the user is ensured through 5 different emergency signals produced by PERGO.

4. WORKING MODELS

Pergo device has different types of uses for different purposes. These differences in use are explained below.

Operation with connection to the Center F60-N	Operation with no connection to the Center F60-B
It needs to connect to a specific center to detect the location of your device at any time and to report its previous locations. As long as your device works, it connects to the predefined central server using GSM/GPRS infrastructure and reports location by the preset time intervals and distances.	Your device only communicates with your GSM number. It processes SMS commands from your GSM number and sends an SMS to your GSM number, if set, in case of a violation. Your device does not connect to any central server and does not send location information.

In both cases above, your device may be used by assembly to both mobile (with no need for an external power supply) and motorized vehicle.

Mobile Use F60-MN / F60-MB	Use by Fixed Assembly to the Vehicle F60-SN / F60-SB
It needs no external power connection for operation. It may be turned on/off from the on/off button. In cases where it is not turned off and it stays immobile for a long time, it turns itself off automatically and it's turned on automatically when it's moved.	When the vehicle it is connected to is activated, it is turned on automatically and it is turned off automatically when the vehicle ignition is inactive. The on/off button may not be used for turning on/off the device. When fixed assembly is made for the vehicle, the vehicle generates a report about the relevant cases of violation. The assembly to the vehicle should take place as set out in the assembly guide.

4.1 PERGO TECHNICAL SPECIFICATIONS

HARDWARE (Features generally apply to the F60 model)		
GPS Features		
	Antenna	Internal (Passive) Antenna
	GPS Precision	50 Channels, -160 dBm
	Positioning System	GPSL1, GALILEOL1, SBAS, WAAS, EGNOS, MSAS, GGAN
GSM Modem Features		
	GSM Modem	Class 10 Quart Band 800/900/1800/1900
	Antenna, SIM Card	Internal

Physical Features			
	Weight (battery excluded)	Size	Box
	45 gr.	72x46x17 mm, 55 cm ³	IP44
Other Features			
	Operating Voltage	6V DC - 35V DC	
	Operating Temperature	-30°C..+70°C (Battery Excluded) / -20°C..+60°C	
	Energy consumption normal/ Data Transfer / Sleep Mode	180 Mw /1-2 W / 0,1-3 mW	
	Automatic awakening from sleep mode	Yes	
	Automatic operation	Yes Fixed: Starts/shuts down according to vehicle ignition data. Mobile: Can be turned on/off via button. If not turned off, it automatically switches to sleep mode if there is no motion.	
	Time taken to connect to GPRS	5-25 seconds	
	GSM Cell Data Notification	Yes	
	Stopping vehicle from a distance	Yes. An optional ROLE connection should be made. The vehicle can be stopped through an SMS sent from the authorised mobile phone or through a desktop application software.	
	Number of external connection connectors	1 (Power, Ignition, RS232, Emergency, ROLE, Fuel/Temperature)	
	Colour classification in connectors	A single connector used for all connections.	
	Visual Status Report	Leds in 4 different colours (Recharge, Power, GPS, GSM)	
	Microphone	Internal	
	Internal Battery	Li-ion	
	Recharge Feature	Yes	
	Off-Line Position recording	Yes - a recording capacity of 100.000 positions.	
	External Emergency Connection Port	Yes	
	Voice communication	One side / can be started and ended automatically	

	and by the centre in the case of emergencies.
Firmware updateable through GPRS	Yes – Automatic version check and updating by the centre
Reading and changing operating settings through GPRS	Yes
Position Compression	Yes – Data regarding Latitude, Longitude, Speed, Heading, Altitude, Number of Satellites, Accuracy of Position, and Distance information are sent in a total size of 15 byte.
Smallest position notification frequency	1 Second
Communication with the Centre	TCP/IP - TCP Socket
Auxiliary connection support	Yes. Establishes communication via auxiliary mapped GPRS connection if primary mapped GPRS connection fails to connect to centre.
Feature of operating without connection to centre	Yes. Does not continuously notify position. Sends position data to mobile phone through sms only when requested.
	Performs automatic sms notification in alarms and violations.
Alarms Generated	
Alarms Generated	Emergency, Change in external power source, Being towed, Unauthorised Use, Detecting motion in vehicle while in E-Park
Restriction Controls	Distance Calculation, Speed Limit, Idle Waiting Period, Rapid acceleration and deceleration, Reaching geographical coordinates, Sudden decrease in fuel level, Magnetic sensor value change, Task Area, Course, and Operation Time control

5. PERGO INTRODUCTION

5.1 OVERVIEW

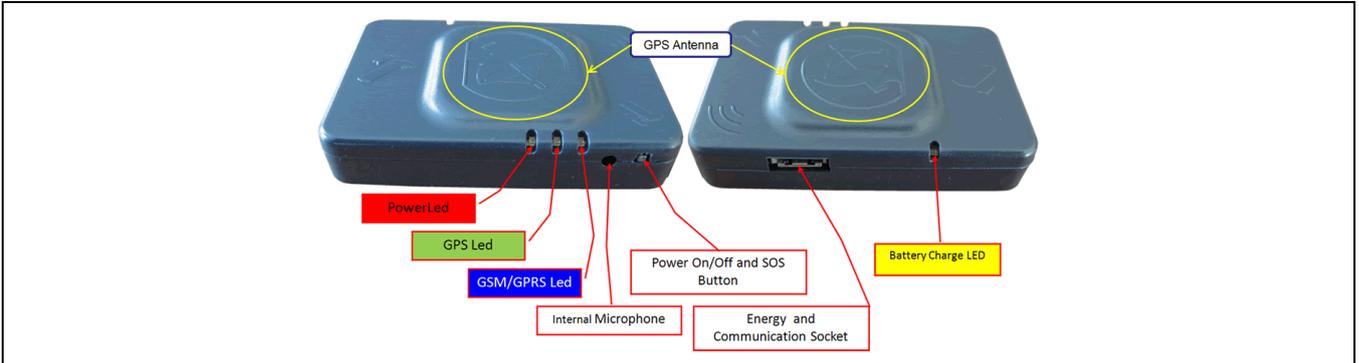


Figure 1 – Upper view

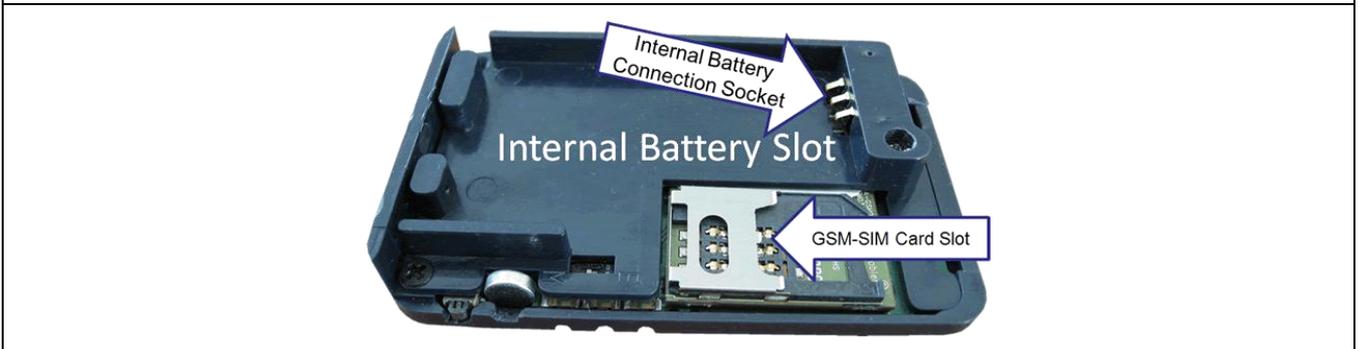


Figure 2 – Inside view

5.1.1 External Power and Connection Socket

It is the socket where the bunch of cables providing PERGO with external power and enabling the connection of the ignition switch, the emergency pedal, other hardware in the vehicle and input/output relay connections in the vehicle, is connected. The connection port is also used to connect the device to a computer in order to update its software and perform its operation settings. Please see the Installation section for information on where each coloured cable plugged into the connection port should be fitted in the vehicle.

5.1.2 GPS Antenna

The GPS module enabling PERGO to receive signals from GPS satellites and to fix its location on earth is located next to the antenna. PERGO must be installed allowing the GPS antenna to face the sky. No metal and similar object must be placed on the antenna, as such objects may prevent the antenna from receiving signals.

5.1.3 On/Off Button

The On/Off button varies according to use type.

PERGO MODELS	
F60-S*	F80-M*
Used for designating the GSM number to be used in communication or for cancelling such designated number. Not used for turning the device on or off. These models, which must be installed as fixed to vehicles, start operating automatically when the vehicle is started and stop automatically when the ignition switch is turned off.	Used for starting and stopping PERGO, and for transmitting an emergency message. Due to device's motion sensor, the device switches to sleep mode and shuts down if the device is motionless for a certain period, even if it is not turned off from the button. It restarts automatically when motion is detected again.

5.1.3.1 Starting PERGO (F60-M*)

Keep pressed until the red and blue leds on the right-hand side of the On/Off button turn on one after the other (2 sec.).

5.1.3.2 Stopping PERGO (F60-M*)

Keep pressed until the green and red leds on the right-hand side of the On/Off button turn on one after the other. (It may be required to press the button between 2 and 7 seconds depending on the status of GPS and GSM modules.) In the case the on/off switch is set for emergency transfer and If the button is pressed in order to shut down the device and the on/off button is released before the green and red leds turn on, the device shall send an emergency signal to the centre to which it is connected.

5.1.4 Internal Microphone

Internal microphone is activated after an emergency an automatic preset number call is made to the Emergency Tracking Center and enables transfer of ambient sounds to a predefined number on the device.

5.1.5 Illuminated Leds

There are 4 different illuminated LEDs on PERGO. These are recharge LED (yellow), power LED (red), GPS LED (green), and GSM/GPRS LED (blue). These LEDs indicate the operation status of the device. The meanings of the activation and deactivation of the LEDs on the device have been explained below.

LED	STATUS	REMARKS
RECHARGE YELLOW	Blinking	External power connected but internal Li-ion battery not installed.
	Off	Internal Li-ion battery installed and battery charge level is 100%. This is the normal light indication.
	Always On	Internal Li-ion battery is being recharged.
POWER RED	Always On	Malfunction. (Motion sensor or memory (flash) failure.)
	Lights up at 2 sec. intervals	The device is functioning properly.

	Lights up at 0,5 sec. intervals	Emergency mode.
	Off	Device off.
GPS GREEN	Always On	GPS failed.
	Lights up at 2 sec. intervals	Position not yet fixed.
	Off	A position data fix has been obtained from GPS satellites.
GSM/GPRS BLUE	Always On	Sim card not installed, GSM hardware has malfunctioned or sim card blocked.
	Lights up at 2 sec. intervals	Attempting connection to tracking centre. (GSM on but GPRS connection not yet achieved)
	Off	Tracking centre connection successful.

5.1.6 Internal Li-ion Battery

There is a li-ion rechargeable battery inside the device. The internal battery is used for detecting and tracking operations carried out on the battery systems of the device or dismantling of the device for a certain period. When the device is fixed on the vehicle it will operate without the batteries. The device having batteries installed should not be subjected to direct sunlight for a long period.

5.1.7 GSM-SIM Card Socket

For the device to communicate with the center it is connected to and transfer location information, a GSM SIM card should be installed into it. It is adequate that the installed SIM card supports one of the Quad Bant (850/900/1800/1900 Mhz) communication of its operator.

5.1.7.1 Disabling the PIN inquiry of the GSM-SIM Card (WARNING)

Before the GSM-SIM card is installed on the device, the **PIN inquiry option** should be disabled through another mobile phone. Otherwise your GSM-SIM card may be blocked. Fitting a SIM card the PIN inquiry of which is disabled shall enable the opening of the telephone without the necessity to enter the PIN code. If the telephone on which the SIM card is installed requires a PIN code upon startup, this means that PIN inquiry is not disabled. Our firm shall not be held responsible for malfunctions (SIM blockage) caused by failure in disabling PIN code inquiry. For a sound operation either the PIN inquiry of the SIM card should be cancelled or the PIN number of the SIM card should be designated in the device. Please contact your service provider to enter the PIN code to the device.

6. INSTALLATION

In mobile operation, installation is not required. You can use the device after charging the batteries with a charge adaptor you may provide from your service provider or manufacturer or with the lighter socket adaptor. For fixed operation, use the detailed installation guide that is provided with the product. Provide that the installation is made by a technical service personnel or in a car maintenance station.

6.1 ATTENTION ! IMPORTANT POINTS DURING INSTALLATION

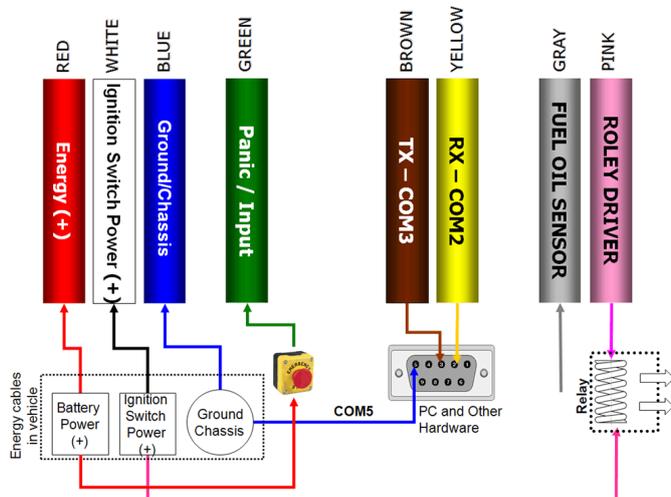
- Install the GPS antenna facing upwards the sky.
- Be careful that metal and other similar objects are not placed over device.
- The installation of Device should be performed by specialists informed about the electrical system of your vehicle.
- The external power input to be connected to Device must not exceed DC 35 V DC. If so, a regulator decreasing the power to 35 V DC should be used.
- Do not keep high radio frequency emitting devices close to Device.
- In the event that the GSM-SIM card to be installed on the vehicle, disable PIN inquiry/make sure that PIN inquiry is disabled. ([Disabling the PIN Inquiry of the GSM-SIM card](#))

6.2 CABLE CONNECTIONS

In fixed operation of the device on the vehicle, make the connection as shown in the figure below. In the connection socket of the vehicle there are a bunch of 8 cables in different colors. Functions and connections of each one of these cables are described below.



Basically connecting 3 of the cables (red, blue and white) is enough for the device to operate.



Battery Power (+) : Continuous DC 6 V DC – 35 V DC energy is necessary.

Ignition Power (+) : 6 V DC – 70 V DC energy is necessary only when the ignition switch is on.

Figure 3 – PERGO Vehicle Fixed Connection Diagram

4 of the connection cables coming out of PERGO (white, green, red, and blue) should be connected to their relevant places on the vehicle fuse board. The cable connections should be made firmly in order to avoid vehicle and device damage caused by arc (electricity jump due to failure in connecting cables firmly). The devices do not have electronic installations that may harm other devices working in the vehicle (air conditioning, computer etc.). Please keep in mind that defects arising from failure in connecting the connection cable ends properly shall not be covered by the warranty and make sure that the installation should be performed by automobile electricians or authorised services.

No energy supply cable should be connected directly to a supply line that is not connected through a fuse-box and that is not protected by a fuse. Although the device has reverse current and overload protection, it should be remembered that the device may be damaged due to connection problems.

6.2.1 POWER CABLE (RED)

The power cable is the red cable within the cable bunch, which transmits Device's operating energy. This cable is connected in the fuse board to a place in which there is always DC power between 6 V DC and 35 V DC (while the vehicle is running or not).

6.2.2 EARTH/GROUND CABLE (BLUE)

It is the blue cable within the cable bunch coming from Device. This cable must be connected to the earth/ground end on the fuse board.

6.2.3 IGNITION CABLE (WHITE)

It is the white cable within the cable bunch coming from Device. This cable is connected to a place which supplies 6 V DC – 35 V DC power when the ignition key is turned on but stops supplying power when the ignition key is turned off. Installed fixed models operate by sensing the starting or stopping of the vehicle and generate the necessary alarms. In order that the device succeeds in performing these, the ignition connection cable should be connected to a place with the above characteristics.

6.2.4 PANIC (EMERGENCY CASE) CABLE CONNECTION (GREEN)

It is the green cable within the cable bunch coming from Device. The panic cable coming from PERGO is connected to the emergency button or pedal. The other cable end on the emergency button or pedal is connected to a place on the fuse board, which continuously supplies 6 V DC – 35 V DC power. It can be connected to the same place with the Device power cable (red).

6.2.5 DATA CABLE CONNECTION (YELLOW) [RX-COM2], BROWN [TX-COM3]

These cables are used in communicating with a computer or other hardware developed by the producer (proximity reader, LCD text unit, Multiple I/O module, video camera etc.). The package of the other hardware shall include the wiring diagram necessary for connecting other hardware supplied by the producer with the Device.

6.2.6 INPUT (GREY)

Electrical or magnetic switches are used as shown in Fig-3 it is used to inform the center about the state changes due to the electrical or magnetic switches.

Transferring information about opening and closing of the motor hood, fuel cap, vehicle doors or lifting truck

dumpers up and down are some examples of operation.

6.2.7 OUTPUT (PINK)

Must be used together with the relay system. Used in starting or stopping other hardware connected to the relay by activating the installed relay system by the tracking system or through SMS messages sent by authorized persons to the tracking centre. Stopping the vehicle from a distance when the relay output ends are connected to the fuel shut-off system of the vehicle can provide an example for the field of use.

6.2.8 PLACING THE INTERNAL BATTERY



The PERGO package contains 1 rechargeable Li-ion battery. This battery must be installed as shown in the figure by opening the rear lid, placing the battery and closing the lid.

7. OPERATION OF THE DEVICE

7.1 DESIGNATING GSM NUMBER TO COMMUNICATE WITH DEVICE

In case the device is to communicate with any GSM number, the installed GSM line should have voice feature. GSM lines that has only data feature should not be used.

At least 1 GSM number should be authorized to be able to use E-PARK feature in F60-SN model and to enable all communications in F60-SB model. 33 GSM numbers can be authorized to model F60-SN device, whereas 3 GSM numbers can be authorized for model F60-SB.

All GSM numbers that will communicate with F60-SN is made via a system web interface.

7.1.1 DESIGNATING GSM NUMBER TO COMMUNICATE WITH DEVICE (F60-SB)

The ignition key of the vehicle must be turned off so that the authorized GSM number can be designated. Perform the following at least 30 seconds after the vehicle ignition key is turned off.

- If another GSM number was designated before, such number must be cancelled first. Read the section CANCELLING DESIGNATED GSM NUMBER TO COMMUNICATE WITH PERGO for the cancellation procedure.
- Hold down the on/off button,
- Call the GSM number installed in Device from the mobile phone that you wish to set as the authorized number,
- When the blue led on Device lights for 3 seconds this means that the calling authorized number has been recorded.
- If the red led on PERGO lights for 3 seconds this means that an authorized gsm number has already been designated for PERGO. Read the section CANCELLING DESIGNATED GSM NUMBER TO COMMUNICATE WITH THE DEVICE for cancelling the designated gsm number.

7.1.2 CANCELLING DESIGNATED GSM NUMBER TO COMMUNICATE WITH DEVICE (F60-SB)

The vehicle ignition key must be turned off so that a previously authorized GSM number can be deleted. Perform the following at least 30 seconds after the vehicle ignition key is turned off.

- Hold down the On/Off button,
- Call the GSM number installed on the device from the GSM number recorded previously as the authorized number,
- When the green led on the device lights for 3 seconds this means that the authorized number designation procedure has been cancelled.

If the calling GSM number is not the authorized number the red light led will light for 3 seconds. In such case the authorized number cancellation procedure will not take place. For the cancellation procedure, a call must be made from the previously designated authorized number. If you do not know the previously designated authorized number please contact the company authorized service for the cancellation procedure.

7.2 UTILISING THE ELECTRONIC PARK (E-PARK) FEATURE

E-Park is a security precaution developed to inform vehicle owners in the case of the theft or unauthorized use (starting vehicle through hotwiring or key) of their vehicles. This feature is disabled by default. In order to use the E-Park feature, the device must first recognize a GSM number that it will use in communication. The procedure for designating a GSM number has been explained under the section DESIGNATING GSM NUMBER TO COMMUNICATE WITH DEVICE.

MODELS		
	F60-SB	F60-SN
Starting the Manual E-Park Feature	An SMS containing the text "EPARK ON" is sent to the GSM number installed in the device.	When Device is in operation and when it connects to the centre, the procedures for using or cancelling the E-Park feature and for designating the gsm number to communicate with the device must be performed.
Starting the Automatic E-Park Feature	An sms containing the text "EPARK AUTO XX" shall be sent to the GSM number installed in the device. The value indicated as XX shows the minutes following the turning off of the ignition key before the automatic e-park status is activated. This number may be between 1 and 99. If the EPARK AUTO feature is used the device shall initiate automatic park status when the ignition key of the vehicle is turned off.	
Disabling the E-Park Feature	In order to stop using the E-Park feature, an sms containing the text "EPARK OFF" must be sent to the GSM number installed in the device.	

Warning: All sms texts to be sent to the device must be written using capital letters.

7.2.1 SETTING DEVICE TO PARK POSITION

The procedure for setting Device to the E-Park position must be used according to the setting made while initiating the use of the E-Park feature. If the automatic E-Park feature is used, making a call shall not be necessary for setting the vehicle to park position. The automatic E-park position becomes active after the ignition key of the vehicle is turned off and the duration set during the setting procedure has expired. In such case you will have to disable the park position by calling the GSM number installed in Device every time you use the vehicle.

If setting Device to park position has been achieved manually, the following step should be followed at least 30 seconds after the ignition key of the vehicle is turned off.

The GSM number installed in Device is called from the GSM number designated for Device and the call is ended after a few ring tones. The device is now in parking position. If the vehicle is started through the vehicle key or through hotwiring, an automatic sms message will be sent to the designated gsm number in the F60-SB model. In the F60-SN model the centre shall be informed and the necessary security procedures shall be performed.

When the call has been made, if the caller shuts the device down before ending the call, this will cause the device to end the park position. Repeat the procedure to bring into parking position.

7.2.2 DISABLING DEVICE PARK POSITION

Before starting the vehicle;

The number of the GSM installed in Device is called from the GSM (authorised) number designated for Device. When the call reaches the device it is automatically ended by the device. The device has now disabled the parking position.

If the vehicle is started before disabling the park position in cases where the vehicle is in park position, in the F60-B model an sms message is sent to the GSM number designated for the device, regarding unauthorised use. In the F60-SN model the centre shall be informed and the necessary security procedures shall be performed.

If the call has not been ended automatically by the device when the call has been made, this means that the device has enabled park position. Repeat the procedure to disable parking position.

7.3 SENDING EMERGENCY CASE MESSAGE

The task of sending an emergency case alarm is performed with a single button or pedal. The task of sending an emergency alarm is activated by pressing a button or a pedal for 3 seconds (this period is adjustable) performed with a single button or pedal.

PERGO MODELS	
F60-S*	F80
In order that the emergency case messages can be transmitted, the emergency pedal or button must be installed on the related cables on the connection port (for installation, see the section "Installation"). An emergency message is sent by pressing the installed button or a pedal for 3 seconds (this period is adjustable)	If the on/off switch is pressed and released before shutdown is completed (green and red leds glow respectively) an emergency message is released if required settings are made.
If the device is in emergency mode, the red led shall blink once every 0.5 seconds. F60-*N models in emergency mode transmit position data to the tracking centre every 10 seconds. The device automatically ends the emergency mode after 300 seconds and resumes normal position information.	

7.4 INQUIRING VEHICLE POSITION INFORMATION THROUGH SMS

PERGO MODELS		
F60-*B		F60-*N
E-PARK ENABLED	E-PARK DISABLED	
<p>The GSM number installed in Device is sent an SMS message containing the text "POS" (in capital letters) by the GSM number designated for Device. The device replies to the GSM number sending the sms message through an sms message indicating the position data in latitude, longitude, speed and heading.</p>	<p>The GSM number installed in PERGO is called by the GSM number designated for PERGO. The call is ended after 1-3 rings. The device sends the position data as latitude, longitude, speed and heading in an sms message.</p>	
<p>In the sms message sent by Device to the designated gsm number, there is no data based on the municipalities' address system. The SMS content contains the geographical data of the location where the device is positioned. In order to understand where these coordinated correspond to, you may use one of the following methods.</p>		
<div data-bbox="151 1153 582 1265" data-label="Image"> </div> <p>If you are using Google Earth, you can write in the box the coordinate data written next to LAT: and LNG: in the message sent via SMS, using , (commas) inbetween (. (periods) should be used instead of the , (commas) between the values) and can thus display the coordinates on map.</p>		
<div data-bbox="143 1411 414 1489" data-label="Image"> </div> <p>You can view the coordinates on the digital map by entering the data obtained from the sms message into the box found in the digital map display section on the webpage you received server, the data next to LAT: being entered into the latitude box and the data next to LNG: to the longitude box (. (periods) should be used instead of the , (commas) between the values).</p>		
<p>If you send the message that you have received via sms to the SMS server you received server, the SMS server will send you the address located in these coordinates via SMS.</p>		<p>The number plate of the vehicle identified in the system of the device shall be sent via sms to the sms call-centre of the corporation from which the tracking service is received. If the GSM number authorization settings have been identified in the tracking centre, the position data of the vehicle shall be sent to the requester as municipality address information via sms.</p>

7.5 VOICE TRANSFER FROM DEVICE LOCATION

PERGO MODELS		
F60-*B		F60-*N
E-PARK ENABLED	E-PARK DISABLED	<p>The number designated in the device is called automatically in case the emergency button or pedal (if installed) is pressed if required settings are made.</p> <p>A voice connection can be established by sending a command to the device if required authorization is given on the web tracking interface.</p>
<p>The GSM number installed in Device is sent an SMS message containing the text "CALL" (in capital letters) by the GSM number designated for Device. The device calls the GSM number sending the sms message.</p> <p>Default line connection period is 3 minutes. If a longer period connection is required a time parameter in seconds, like "CALL 1000" should be written in the SMS content.</p>	<p>The GSM number installed in Device is called by the GSM number designated for Device and waits until the call is answered.</p> <p>The answering period is the duration of 5 rings. The device will automatically end the call 3 minutes after the call has been answered.</p>	

7.6 UTILISING THE INPUT/OUTPUT FEATURE OF THE DEVICE

In order to use this feature that operates by stopping the vehicle by cutting the fuel system of the vehicle, the installation necessary must be performed as explained in the section regarding cable connections.

PERGO MODELS	
F60-SB	F60-SN
<p>In order that the GSM number designated for Device opens the content, the text "ROLE ON" should be sent via SMS to the GSM number installed on Device, and the text "ROLE OFF" should be sent in order to close the content.</p> <p>When the SMS is received and the command is executed by the device, a reply shall be sent to the designated gsm number notifying that the procedure was carried out.</p>	<p>The system under this feature of the device can be remotely opened or closed through the active tracking centre or a web interface. The ignition key of the vehicle has to be turned on for the feature to be used.</p> <p>In order to open content, the message "ROLE1 ON PLAKA" should be sent via SMS to the sms call centre of the corporation from which service is received, and the message "ROLE1 OFF PLAKA" should be sent in order to close the content.</p>

7.7 RECEIVING SPEED LIMIT AND RAPID ACCELERATION/SLOWING VIOLATIONS

It is a feature used to inform the vehicle owner when the vehicle has violated the designated speed limit or has exceeded the defined difference of speed within 2 consecutive seconds. By default, these values are not activated. If you wish to be informed of violations, please have the necessary settings performed as follows.

PERGO MODELS	
F60-SB	F60-SN
<p>An SMS message, the content of which is in the format of "OPT 000 00," should be sent to the GSM number installed in Device. If the SMS content is sent as explained above, the speed limit and rapid acceleration/deceleration control will be disabled. The 3-digit value following the word OPT indicates the speed limit with which the vehicle must comply, and the following 2-digit value indicates the difference in speed between two speeds, which must be complied with. The message to be sent to the device must consist of 10 characters including the spaces. For instance, if the speed limit to be set as the upper limit is 90 km/h and the difference between the two speeds is 25 km/h, the content of the message should be "OPT 090 25".</p> <p>The tests performed have shown that the difference between two speeds should be set above 20-25 km/h for the detection of rapid acceleration and deceleration of the vehicle.</p>	<p>The speed limit and rapid Acceleration/deceleration speed kept by the device can be changed through a command from the active tracking centre or the web interface.</p> <p>When the defined violation is detected on the device, the system center SMS server informs all users designated on the system about the vehicle causing violation.</p>

7.8 INFORMATING WHEN THE VEHICLE REACHES GEOGRAPHICAL LOCATIONS SPECIFIED (F60-SN)

The designation of 200 geographical locations for Device is performed by the system web interface. In the event that the vehicle on which the device is installed reaches the defined geographical locations, the device informs the system centre. The times in which these locations were reached can also be received as reports through the web interface.

7.9 REPORTING MILEAGE (F60-SN)

The device continuously calculates the distance travelled by the vehicle with a margin of error of $\pm 5\%$ and informs the system centre. This mileage data can also be received as a report through the web interface.

7.10 REPORTING VEHICLE RUNNING TIME (F60-SN)

This feature can be used only in the F60 model. The device calculates the time in which the ignition key of the vehicle was turned on and informs the system centre. The running report data can be obtained in detail through the web interface.

7.11 REPORTING IDLE RUNNING TIME (F60-SN)

The long-duration standstills performed by the vehicle when the ignition key is turned on are reported to the system centre. The idle running report data can be obtained in detail through the web interface.

7.12 SWITCHING THE FIXED DEVICE TO MOBILE MODE

The device has an automatic contact perception system. After the mobile device is installed and perceives the current after the ignition switch is turned on, it is automatically reset and switches to an operating mode where it will produce some special reports on vehicle operation working on the vehicle battery supply. In this mode it is impossible to turn off the device using the on/off switch. The device only turns on and off with the standby energy of the vehicle. All LED's of the device goes off when the connection cable is dismantled but the operation continues. If the fixed device is decided to be used in mobile mode, the battery of the device is displaced after the current supply connection is dismantled, and on/off switch is pressed continuously and the battery is re-installed. The button is released after 5-10 seconds. After this operation the device switches to mobile mode and could be turned on an off using the on/off switch.

7.13 HOW AND WHERE THE DEVICE CAN BE TRACKED

There is no continuous tracking feature in F60-*B models. These models can only communicate via an identified GSM number and with SMS. In F60-*N models, tracking and reporting can be done through an internet web site designated by the supplier of the device. You have to set a username and password to be able to use the web interface. The website address for tracking and reporting used by Pergo devices that operate in Turkey is <http://vts01.pergo.com.tr>. You should start with the "new user" link after you enter the website if you do not have a predefined username and password. Then you can enter the serial number and page verification code of the device you have purchased and continue to the next page to identify your username and password. After you complete identifying your username and password a verification message will be sent by the system to the e-mail address you have defined during registration. Your account will be activated when you click the link inside the message you received. From now on you can define other devices you can set up new groups and users, receive reports and authorize selected users to track vehicles. You can have further information on these procedures by downloading the "Web Using Guide" to your computer after you log in the website.