

## Pandora would like to thank you for choosing our service-security system

**Pandora Smart v4** (hereinafter referred to as the System) is a car service-security system built for cars with on-board voltage of 12V. It is a complex engineering solution, which includes unique and modern technological software and hardware solutions.

While developing the Pandora Smart v4 we were using the most up-to-date electronics from world's best manufacturers. The Pandora Smart v4 is built using high-precision mounting and control machinery, thus we guarantee highest possible quality, reliability and stable technical characteristics for the whole operation period.

The system has a cryptographically strong authorization code with unique dialog algorithm and individual encryption key on every device. It guarantees protection from electronic hacking for the whole operation period.

The system is built for your convenience: it's ergonomic, reliable, has the highest security and service characteristics, 3 years unconditional warranty and free service and support. We are happy to provide any support we can – feel free to use our online support.

**!** WARNING! IT'S STRONGLY RECOMMENDED TO INSTALL A SECURITY SYSTEM BY THE SKILLED AUTOMOTIVE TECHNICIAN! THE INSTALLATION MUST BE PERFORMED ACCORDING TO THE PROVIDED TECHNICAL DOCUMENTATION, INSTALLATION GUIDES AND SCHEMES. THE FUNCTIONALITY AND FEATURES OF THE SYSTEM DEPEND ON ITS CORRECT INSTALLATION/CONFIGURATION AND/OR THE SPECIFICS OF THE VEHICLE.

This device has limited external factors resistance. It should not be subjected to water beyond occasional splatter, or operated in temperatures outside -40° to +85° C range. All system components must be installed only in a car interior. The base unit, remote control and radio tags fulfill with the IP40 category of protection against water.

**Our web-site: [pandorainfo.com](http://pandorainfo.com)**

**Customer support: [support@pandorainfo.com](mailto:support@pandorainfo.com)**

Product is in conformity with Electromagnetic Compatibility  
Directive EMC 2004/108/EC and R&TTE Directive 1999/5/EC



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## System set

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• THE MANUFACTURER RESERVES THE RIGHT TO CHANGE THE SYSTEM SET AND CONSTRUCTION OF THE PRODUCT TO IMPROVE ITS TECHNOLOGICAL AND OPERATIONAL PARAMETERS WITHOUT A NOTIFICATION.

## Read before using

Carefully read this manual before starting installation and using the security-service system. Pay attention to text marked with !

- ! THE SECURITY AND TELEMETRIC SYSTEM IS A COMPLEX TECHNICAL PRODUCT. SYSTEM INSTALLATION AND CONFIGURATION MUST BE CARRIED OUT ONLY BY A SKILLED PROFESSIONAL.
- ! FEATURES AND SYSTEM MODES, CONTROL OF THE VEHICLES ZONES DEPEND ON THE TYPE OF CONNECTION AND SYSTEM SETTINGS, ORIGINAL VEHICLE OPERATION LOGIC AND TRIM.
- ! THE SYSTEM SET INCLUDES THE "OWNER'S PERSONAL CARD". THIS CARD CONTAINS INFORMATION UNDER A PROTECTIVE LAYER THAT IS INTENDED ONLY FOR THE OWNER OF THE SYSTEM. MAKE SURE THAT THE PROTECTIVE LAYER ON THE OWNER'S PLASTIC CARD IS INTACT AFTER THE INSTALLATION OF THE SYSTEM. READ THE "OWNER'S PERSONAL CARD" SECTION OF THIS MANUAL BEFORE ERASING THE PROTECTIVE LAYER.
- ! WHEN SYSTEM INSTALLATION IS FINISHED:
  - CHECK THE SYSTEM OPERATION AND FUNCTIONS WITH A SPECIALIST.
  - WE RECOMMEND THAT YOU MARK EACH WORKING FUNCTION WITH A SIGN  IN THE "CONTROL THE SYSTEM" SECTION
  - CHECK THAT THE "INSTALLATION CERTIFICATE" AND "WARRANTY CARD" ARE FILLED OUT. THESE DOCUMENTS MAY BE REQUIRED FOR CONTACTING THE CUSTOMER SUPPORT.
  - ASK AN INSTALLER TO MARK THE LAYOUT OF THE SYSTEM COMPONENTS ON THE DIAGRAM. THIS INFORMATION MAY BE REQUIRED FOR DIAGNOSTIC/CONFIGURING OR EMERGENCY DEACTIVATION OF THE SYSTEM.
  - WE RECOMMEND THAT YOU CHANGE THE DEFAULT VALUE OF THE PIN-CODES OF THE SYSTEM. YOU CAN WRITE DOWN THE CHANGED PIN-CODES IN THE "PIN-CODES OF THE SYSTEM" SECTION.

## PIN-codes of the system

### The "Secret PIN-code"

(is written on the "Owner's personal card")

### The "Service PIN-code"

(default value is 1-1-1-1)

### The "Guest PIN-code"

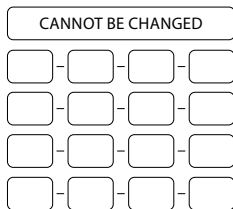
(default value is 1-2-3-4)

### The "Immobiliser PIN-code"

(is used for the Validator (pin-to-drive) function)

### The "Beach mode PIN-code"

(is used for Beach mode function)



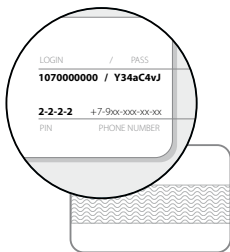
**!** IT IS RECOMMENDED THAT YOU WILL WRITE DOWN THE CHANGED OR CREATED VALUES OF ALL PIN-CODES. ELIMINATE THIRD-PARTY ACCESS TO THIS INFORMATION.

## Owner's personal card

**!** ERASE THE PROTECTIVE LAYER CAREFULLY. DO NOT USE ANY SHARP OBJECTS TO AVOID DAMAGING OF A HIDDEN INFORMATION UNDER THE PROTECTIVE LAYER. THE INFORMATION ON THE OWNER'S PERSONAL CARD COULD NOT BE CHANGED OR RESTORED IN CASE OF DAMAGE OR LOSE. ELIMINATE THIRD-PARTY ACCESS TO THIS INFORMATION.

The Owner's personal card contains private information under a protective layer:

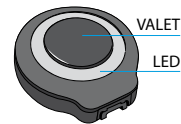
- **PIN** – (the "Secret PIN-code") is a 4-digit number. This code can be used to disarm the system and to deactivate immobiliser functions and to activate Service mode. It can be also used to enter programming mode.
- **LOGIN** – is a 10-digit number. This information is used to add the system to the online service and mobile applications.
- **PASS** – contains 8 characters and can consist of digits, lower and upper case letters). This information is used to add the system to the online service and mobile applications.
- **Phone number** – not applicable to this system.



## External VALET button

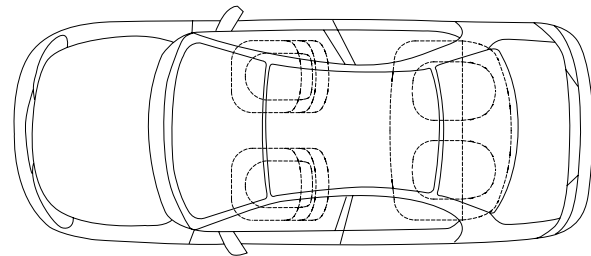
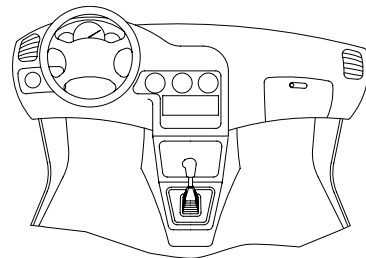
An external VALET button with a two-color status LED indicator is placed inside a vehicle (see the "System modules layout" section).

The button is used for programming the system, arming/disarming, activating/deactivating immobiliser modes.



## System modules layout

- 1 External VALET button (VALET button via CAN)
- 2 Button for the Immobiliser PIN-code
- 3 Button for Beach mode PIN-code
- 4 Circuit being blocked
- 5 Base unit
- 6 Beeper
- 7



## Base unit

**Built-in LTE module (4G/2G)** – provides a connection with our online service pandora-on.com and mobile application, allows to control the system by a phone using DTMF commands, voice and SMS notifications, LBS-coordinates (only by DTMF -command), automatic date and time detection.

**Built-in nano-SIM port** – is used to work with the built-in GSM modem.

! THE SIM-CARD SHOULD BE REPLACED AND THE FOLLOWING SETTINGS SHOULD BE PERFORMED ONLY BY A QUALIFIED SPECIALIST.

**2.4GHz radio channel, Bluetooth 5.0 protocol (BT5.0)** – supports up to 14 additional Bluetooth devices (see the “Additional devices” section), including a mobile phone.

**Built-in 3D accelerometer** – is used to detect shock/motion/tilt including 2 separate zones of shock sensor (alarm and warning), the system allows to adjust sensitivity of each zone, to use data from the accelerometer to block the engine and close the central lock on movement.

**Temperature sensors** – allow the system to measure temperature of different zones to send this information to the remote control or mobile apps. The following zones are available: interior temperature – built in sensor of the main unit, engine temperature – external temperature sensor (see the “System set”), outside temperature – digital car protocol\*.

The system settings allow you to reassign sensor to different zones and use information from external additional devices (PS-331BT, RHM-03BT, DMS-100BT/101BT/105BT); to implement automatic engine or engine pre-heater starts and stops by temperature.

**Built-in digital 2xCAN/LIN\* interface** – allows the system to read statuses and execute commands via digital buses, and work with Webasto Thermo Top Evo и Eberspacher Hydronic 1/2/3.

**Built-in digital IMMO-KEY port and immobiliser bypass\*** – hardware and software algorithms with the special Pandora CLONE server allow the system to bypass original immobilisers for automatic and remote engine starts.

**Built-in USB port** – update and configuration of the system using a PC and Pandora Specialist.

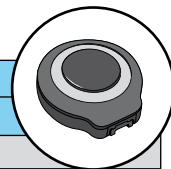
! \*THE OPERATION OF THE SYSTEM DEPENDS ON THE FUNCTIONS DECLARED BY THE MANUFACTURER FOR A PARTICULAR VEHICLE. IT IS RECOMMENDED TO CONSULT WITH A QUALIFIED SPECIALIST BEFOREHAND ABOUT THE AVAILABILITY OF THESE FUNCTIONS.

## External GPS/GLONASS antenna

Is a peripheral device designed to enhance system information and operating characteristics:

- displaying vehicle location and movement via internet service and mobile application
- automatic date and time synchronization using UTS.

## Information signals of the system



LED INDICATOR SIGNALS	
SIGNALS	DESCRIPTION
THE SYSTEM IS ARMED	
Short red flashes	System is armed
Short green flashes	System is armed (an authorization device is in the coverage zone)
Fast red flashes	Alarm
THE SYSTEM IS DISARMED	
Faded	System is disarmed
Red	System is preparing for automatic or delayed arming
Green (when ignition is on)	System is in Service mode
Synchronized red and green flashes (when the ignition is turned on)	Confirms the number of paired control devices (remotes, Bluetooth remotes)
Green flashes (when switching on the ignition)	Confirms the number of paired radio tags
Red flash (when switching on the ignition)	Confirms a paired mobile device
WHEN ENTERING THE “SECRET PIN-CODE” OR THE “SERVICE PIN-CODE”	
Green flash	Confirms a VALET button press
Short red flash	Confirms a digit input PIN-code is incorrect
Red and green flashes	Confirms correct PIN code

SOUND AND LIGHT SIGNALIZATION	
SIGNALS (sound / light)	DESCRIPTION
1x  / 1x	Arming
2x  / 2x	Disarming
5x  / 5x	Car search
30 sec.  / 30 sec.	Alarm, PANIC mode
3x  / 1x	Warning level of a sensor is triggered
4x  / 4x	"Sensors were triggered" signal when disarming / Parking light is not turned off notification / "Sensors are triggered" signal when arming
25 sec.  / 25 sec.	Engine blocking warning in Anti-Hi-Jack mode

BEEPER SOUND SIGNALS	
SIGNAL	DESCRIPTION
1 sound signal	Activating Service mode
2 sound signals	Deactivating Service mode
1 sound signal	Correct input of the "Immobiliser PIN-code"
3 sound signals/3 times	A battery in a radio tag is discharged (when turning on the ignition)
4 sound signals/4 times	Absence of an authorization device when you switch on ignition
Fast sound signals	Engine blocking warning

## SYSTEM FUNCTIONS AND MODES

### Security mode

The system confirms arming with 1x sound and 1x light signals. When the system is armed, the system monitors security zones with separated warning and alarm level of triggering:

- Warning mode - this mode activates when there is a slight impact on the shock sensor or additional sensor. It is accompanied with 1x light and 3x sound signals;
- Alarm mode - this mode activates when a sensor or one of the security zones is triggered. It is 30 sec. light and 30 sec. sound signals. The alarm signals can be cancelled by an arming or disarming command.

If one of the security zones is triggered the system:

- records this event in its non-volatile memory;
- activates the alarm or warning mode;
- informs an owner by all available means;
- blocks the engine (in accordance with the settings and connections).

If one of the security zones is opened at the moment of arming, the system will produce 4x sound and 4x light warning signals.

If one of the security zones fails, the system will forcibly turn off this zone. If a switch triggers more than 9 times in a row, it will be disabled until the next arming. The shock/tilt/motion sensor is temporarily deactivated (15 sec.) if it has been triggered more than 3 times in a row.

The system confirms disarming with 2x sound and 2x light signals. The system deactivate engine blocking (if the immobiliser function and additional blocking are not used). If there were alarm events during the armed period, the system will produce 4x sound and 4x light warning signals. The system continues to display all zones when it is disarmed, but the information is not saved in the memory.



FOR EMERGENCY DISARMING SEE «CONTROL OVER THE SYSTEM IN CASE OF EMERGENCY».

### Security zones

- Interior temperature (status)
- Engine temperature (status)
- Outside temperature (status)\*/\*\*
- Voltage of the on-board circuits (status)
- Engine operation control - RPM (status)

- Heater operating control (status)
- Fuel level (status)
- Parking (automatic gearbox) /Handbrake (manual gearbox) status
- "Parking light is not turned off" notification (status)
- Shock sensor (security zone – alarm and warning level)
- Motion sensor (security zone – alarm level)
- Tilt sensor (security zone – alarm level)
- OE alarm system status\*, additional sensor\*\* (status, security zone – alarm and warning level)
- Turning ignition on (status, security zone – alarm level)
- Opening doors (status, security zone – alarm level)
- Opening a trunk (status, security zone – alarm level)
- Opening a hood (status, security zone – alarm level)
- Pressing brake (status, security zone – alarm level)

! \* OPTION AVAILABLE BY DIGITAL BUSES OF THE VEHICLE.  
 \*\* OPTION ( SEE THE «ADDITIONAL DEVICES» SECTION).

## Remote and automatic engine starts (OPTION)

The system allows the remote engine start using the "remote engine start" command from a remote control, mobile application or preconfigured automatic engine start function. Remote start can be used to heat engine and interior, charge battery or to cool the interior with air conditioning.

Remote and automatic starts can only be used when the system is armed. While the system is in remote or automatic start mode, it keeps performing all security functions of all of the security zones excluding a shock sensor (the system can be configured to not disable the shock sensor during a remote engine start). To compensate it, the motion sensor sensitivity and responsiveness will be increased. If any security zone will be triggered, the engine will be immediately stopped and alarm mode will be triggered.

When using the remote and automatic engine start functions, make sure that a car is secured with handbrake or some other means of fixing the car on a parking position.

Remote and automatic engine start on automatic transmission cars will only occur, if a transmission selector lever was left in the «P» position.

If a car has manual transmission, remote or automatic start will only occur if the program neutral procedure was followed when the car was arming.

### AN EXAMPLE OF THE PROGRAM NETURAL PROCEDURE

1. When the engine is running, fixate the car with the handbrake and put gear lever to the neutral position. Program neutral procedure will be switched on automatically (by default system settings).
2. Turn the key in the ignition lock to the OFF position (the engine should still be running) and take it out of the lock (skip this step for cars with a Start/Stop button).
3. Leave the car, close the doors.
4. Arm the system - the engine will be stopped. Now the system is ready to perform remote and automatic engine start.

### Automatic starts

The system allows configuring automatic engine start and stop conditions. Automatic starts can be configured using mobile application. The following conditions can be specified for automatic engine starts: schedule, time period, engine temperature, voltage. The engine will be stopped automatically after specified time or when the engine temperature reaches a specified value. The engine can be also stopped by a user command.

! AUTOMATIC ENGINE STARTS AND STOPS BY TEMPERATURE ARE AVAILABLE ONLY IF ENGINE TEMPERATURE DATA IS AVAILABLE IN DIGITAL BUSES OF THE CAR, OR IF AN EXTERNAL ENGINE TEMPERATURE SENSOR IS CONNECTED.  
 REMOTE AND AUTOMATIC ENGINE STARTS ARE NOT AVAILABLE IF THE HOOD IS OPEN.  
 AFTER A SERIES OF THREE UNSUCCESSFUL ATTEMPTS OF AUTOMATIC START, ALL FOLLOWING AUTOMATIC STARTS WILL BE CANCELLED UNTIL DISARMING/ARMING (THIS DOES NOT AFFECT ON REMOTE ENGINE START).

### Slave mode

This mode allows arming and disarming using original vehicle control – an original key, button/sensor of a keyless access entry system.

Slave mode can be implemented using analog connections or a digital protocol of a vehicle.

! THIS MODE IS DISABLED BY DEFAULT - CONFIGURATION OF THE SYSTEM SHOULD BE MADE BY A QUALIFIED TECHNICIAN. IT IS RECOMMENDED TO ACTIVATE THE "PROHIBIT DISARMING WHEN A TAG IS ABSENT" TO INCREASE SECURITY FEATURES OF THE SLAVE MODE. IF THIS MODE IS ACTIVATED, IT WILL BE POSSIBLE TO DISARM THE SYSTEM ONLY WHEN AN AUTHORIZATION DEVICE IS IN THE COVERAGE ZONE OR USING THE "IMMOBILISER PIN-CODE" (SEE «CODE IMMOBILISER" (PIN-TO-DRIVE) FUNCTION).

## Owner authorization devices and functions

### Authorization devices

Authorization devices are Bluetooth devices paired with the system (radio tags, Bluetooth remotes, mobile phone with the app). The devices are used to recognize an owner in the radio coverage zone of the base unit to arm/disarm the system (Hands Free mode) and to implement Immobiliser or Anti-Hi-Jack functions.

! INSTALL THE BEEPER IF YOU USE AUTHORIZATION DEVICES.

### Hands Free mode

This mode is used for automatic arming/disarming  when an owner with an authorization device is distancing  or approaching  a vehicle.

! THIS MODE IS DISABLED BY DEFAULT. THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

### Immobiliser mode

This mode is used to recognize an owner using authorization devices when the system is disarmed. When turning on the ignition, the base unit performs a search for authorization devices in the radio coverage zone. If there is no any authorization device in the radio coverage zone, the system will block the engine. Engine blocking will occur immediately or at the time a motion sensor detects movement, it depends on the system settings. When an authorization device appears in the coverage zone, the system will exit blocking mode and will continue to work in normal mode.

! THIS MODE IS ENABLED BY DEFAULT. ITS OPERATION DEPENDS ON THE METHOD OF CONNECTION AND SYSTEM CONFIGURATION. FOR EMERGENCY DISARMING SEE «CONTROL OVER THE SYSTEM IN CASE OF EMERGENCY».

### ANTI-HI-JACK-1/2 modes

The Anti-Hi-Jack modes help to prevent aggressive seizure of a vehicle in case of disappearance of authorization devices from the radio coverage zone when system is disarmed.

ANTI-HI-JACK-1 mode – The base unit checks if an authorization device is in the radio coverage zone each time when ignition is on and a door is opened/closed.

ANTI-HI-JACK-2 mode – The base unit constantly checks if an authorization device is in the radio coverage zone when ignition is on.

If the system cannot detect an authorization device, the base unit will perform a delayed engine blocking. The siren will play the 'Engine blocking warning' ringtone before blocking. The engine will

be blocked immediately or at the time the car starts moving, it depends on the system settings. When an authorization device appears in the coverage zone, the system will exit blocking mode and will continue to work in normal mode.

! THIS MODE IS DISABLED BY DEFAULT - CONFIGURATION OF THE SYSTEM SHOULD BE MADE BY A QUALIFIED TECHNICIAN. FOR EMERGENCY DISARMING SEE «CONTROL OVER THE SYSTEM IN CASE OF EMERGENCY».

### Code Immobiliser (pin to drive) function

- This function allows to use the pre-programmed «Immobiliser PIN-code» to disable the engine blocking, Service mode, disarming the security system. The code must be entered using factory vehicle controls (buttons/lever/pedal) and/or additionally installed elements.
- In case of emergency, it is possible to disable Code immobiliser by methods, described in «Control the system in case of emergency».

#### AN EXAMPLE OF USING THE FUNCTION

- Turn on the ignition to disable engine blocking or Service mode, turning on the ignition is not required if you want to disarm the system or control time channels.
- Enter the «Immobiliser PIN-code», code can consist max of 4 digits from 1 to 9:
  - Press the pre-programmed button/lever/pedal the number of times equals to the first digit.
  - Pauses between presses should not exceed 1 second. More than 1 second pause will be interpreted as the start of the next digit input.
- The system will confirm the correct input by a sound signal of the beeper and will activate a programmed action.

! THIS MODE IS DISABLED BY DEFAULT - CONFIGURATION OF THE SYSTEM SHOULD BE MADE BY A QUALIFIED TECHNICIAN. FOR EMERGENCY DISARMING SEE «CONTROL OVER THE SYSTEM IN CASE OF EMERGENCY».

### Beach mode

This mode allows to use the pre-programmed «Beach mode PIN-code» for system arming/disarming. The code must be entered using factory vehicle controls (buttons/sensors) or additionally installed element.

#### AN EXAMPLE OF USING BEACH MODE

- Press the factory or additionally installed element until the single light flash, thereafter start to enter «Beach mode PIN-code».
- Enter the «Beach mode PIN-code», code can consist max of 4 digits from 1 to 9:




- Press the control element the number of times equals to the first digit.
- Pauses between presses should not exceed 1 second.
- More than 1 second pause will be interpreted as the start of the next digit input.
- After the correct input the system will confirm arming/disarming by the sound and light signals.


**!** THIS MODE IS DISABLED BY DEFAULT - CONFIGURATION OF THE SYSTEM SHOULD BE MADE BY A QUALIFIED TECHNICIAN.  
FOR EMERGENCY DISARMING SEE «CONTROL OVER THE SYSTEM IN CASE OF EMERGENCY»




## Checking the number of paired devices

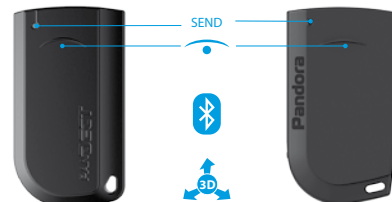
The number of recorded remote controls can be checked by the number of flashes of the LED indicator on the VALET button or on the base unit. The number of registered remote controls device can be checked every time the ignition is switched on when the system is disarmed. The number of green LED flashes will indicate the number of recorded control devices (remotes, tags, watches, bands), the red flash – paired mobile device.

You can also check the number of recorded devices by taking off and putting back on battery terminal (if possible). The system will emit short sound signals from a siren , with less than 1 sec. interval.

## IMMOBILISER RADIO TAG







**A radio tag** is a device used to control a vehicle/system on a distance of a Bluetooth connection. The tag is also used as an authorization device for «Immobiliser/Anti-Hi-Jack/Hands Free» modes. The radio tag has: a control button , for arming/disarming and activating/deactivating Service mode, a built-in accelerometer, which allows the tag to go in the energy saving mode when there is no movement and LED indicator **SEND**.

-  - 2.4 Ghz (Bluetooth)
-  - Control button
- SEND** - LED indicator
- CR 2032** - Battery
-  - Accelerometer



**!** FOR CORRECT OPERATION, IT IS NOT RECOMMENDED TO PLACE THE RADIO TAG NEAR THE METAL OBJECTS, MAGNETIC AND ELECTRONIC DEVICES (CREDIT CARDS, PHONES, KEYS, REMOTES, ETC.). DO NOT EXPOSE THE RADIO TAG WITH HIGH TEMPERATURES, MOISTURE, OR STRONG IMPACTS. IT IS RECOMMENDED TO PLACE THE RADIO TAG ON THE BELT IN AN INDIVIDUAL CASE OR IN THE FRONT POCKET OF CLOTHING.

## Functions of the button

PRESS	DESCRIPTION
 - short press (when ignition is off)	System arming/disarming
 - press and hold for 1 sec. (when engine is running)	Activation of «Ignition hold on» mode
 - press and hold for 2 sec. (when system is disarmed)	Change the «Main owner phone number»
 - press and hold for 3 sec. (when ignition is on)	Activating/deactivating Service mode
 - press and hold for 6 sec. (in programming mode)	Pairing a tag with the base unit
 - press and hold for 10 sec.	Firmware update

## Indication of the SEND LED

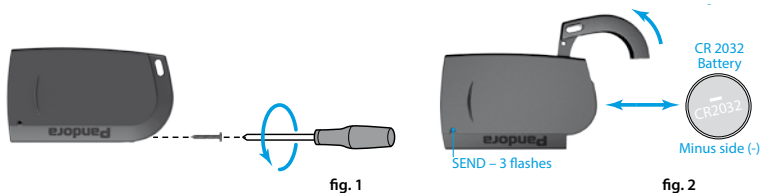
SIGNALS	DESCRIPTION
one flash	confirmation of arming low battery level (when installing a battery)
two flashes	confirmation of disarming
three flashes	high battery level (when installing a battery)
faded constant light	battery is discharged (when installing a battery, when the button is pressed)

## Installation/replacing a battery of the tag CR2032

When installing or replacing the battery (CR2032), you must carefully follow the following steps.

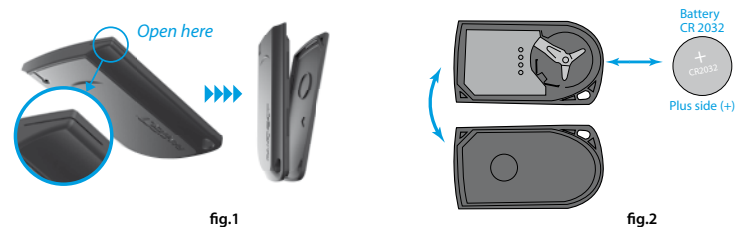
### Variant installation/replacing a battery:

- unscrew the screw with a Philips PH00 screwdriver (fig.1);
- slide the battery cover in the direction shown by the arrow (fig. 2);
- remove the battery and install a new one in accordance with the correct polarity;
- the SEND indicator will produce 3 red lights if a quality battery is installed;
- assemble the tag in the reverse order.




### Variant installation/replacing a battery:

- carefully open the cover of the tag's battery compartment (fig.1);
- extract discharged battery and insert a new one keeping in mind the correct polarity (fig.2);
- the SEND indicator will produce 3 red lights if a quality battery is installed;
- assemble the tag in the reverse order, all elements of construction should be rigidly locked in places.



## Prompt entry/change of the main owner phone number

For a prompt entry/change of the main owner's phone number follow next steps:

- Disarm the system, being near the vehicle call the system phone number, wait for the answer (Enter the «Guest PIN-code if you are calling not from the owner's phone number. Default value is 1-2-3-4»);
  - Press and hold button  on the radio tag until two flashes of the SEND indicator, then release button;
  - System will save incoming phone number as the «Main owner's phone number» and will repeat it;
  - End call.
- ! THE PHONE NUMBER COULD BE ALSO CHANGE USING MOBILE DEVICE (SEE «CHANGING SETTINGS VIA PHONE» SECTION).

## CONTROL THE SYSTEM BY A PHONE

! FOR THE CORRECT OPERATION OF THE GSM FUNCTIONS, AN OWNER SHOULD MONITOR THE STATUS/BALANCE OF THE SIM CARD INSTALLED IN THE SYSTEM. IF THE SIM CARD IS BLOCKED OR DEFECTIVE, GSM FUNCTIONS OF THE SYSTEM WILL BE UNAVAILABLE.

Call the system's phone number. When it answers, enter a command code.

Default settings allow the system to receive calls only from the phone number programmed as an "Owner's main number". If you call from any other numbers, including Additional owner's numbers, it will be necessary to enter the "Guest PIN-code" (default value is 1-2-3-4).

* * * * *	Repeat the last message	2 5 8 *	System information
1 *	Arming	2 2 2 *	Disable Hands Free mode
0 *	Disarming	2 2 3 *	Enable Hands Free arming
1 0 *	Silent arming	2 2 4 *	Enable Hands Free disarming
0 0 *	Silent disarming	2 2 5 *	Enable Hands Free disarming only with autom. start
1 1 *	Turning on the "Active security" mode	7 8 9 *	Enable automatic engine start
1 5 9 *	Unlocking trunk	9 8 7 *	Disable automatic engine start
9 *	Help	2 9 7 *	End call
1 5 *	Tow truck mode	5 5 1 *	Enable Service mode (see description below)*
1 0 0 *	Request GSM account balance	5 5 2 *	Disable Service mode
1 2 3 *	Start the engine/prolong heating	1 5 6 *	Switch on engine preheater
3 2 1 *	Stop the engine	6 5 1 *	Switch off engine preheater
3 3 3 *	Switch on add. function using F via CAN	6 6 6 *	Enable engine blocking
5 0 0 *	Request current coordinates	9 9 9 *	Disable engine blocking*
7 5 3 *	Force connection to the server	9 9 8 *	Disable authorization devices*
4 5 6 *	Switch on additional channel	8 8 8 *	Enable authorization devices
6 5 4 *	Switch off additional channel	4 2 4 *	Fuel level calibration

\*IT IS REQUIRED TO ENTER THE "SECRET PIN-CODE" AFTER DIALING A COMMAND.

! IF THE SYSTEM OWNER'S NUMBER IS NOT PROGRAMMED, THE SYSTEM ACCEPTS INCOMING CALLS FROM ANY TELEPHONE NUMBER WITHOUT ENTERING THE GUEST PIN CODE.

ADDITIONAL SYSTEM SETTINGS ALLOW YOU TO: MAKE A CALL TO THE FIRST ADDITIONAL NUMBER WITHOUT ENTERING THE «GUEST PIN CODE»; REQUEST A «GUEST PIN CODE» FROM ANY TELEPHONE NUMBERS; BLOCK INCOMING CALLS FOR ALL NUMBERS EXCEPT THE SYSTEM OWNER'S NUMBER. THESE ADJUSTMENTS SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

## DTMF commands

For example: To have simple access to engine start function, create a new contact in the contact list of your phone, name it 'Engine start', for instance, and add the number in the following format: +XXXXXXXXXXXX,123\*,297\* where "+XXXXXXXXXXXX" – the system phone number, "" - pause is a feature of the phone (can be displayed as the 'P'; see the instructions of the phone), "123\*" - remote engine start DTMF command, "297\*" - end call DTMF command. Contact can be added as a speed dial to any of the free button. To have simple access to engine start function a phone other than the main owner's phone, create contact in the following format: +XXXXXXXXXXXX,1234,123\*,297\* where '1234' – guest PIN-code.

## Activate/Deactivate Service mode

1. Call the system number. Wait for the answer.
2. Turn on the ignition, an authorization device (a radio tag, a remote control, a paired mobile phone with the app installed) must be in the coverage zone, enter the "Immobiliser PIN-code" (if the "Code Immobiliser" function is enabled).
3. To activate Service mode, dial the **551\*** DTMF command — "Activate Service mode", then enter the "Secret PIN-code" from the owner's personal card.
4. To deactivate Service mode, dial the **552\*** DTMF command — "Deactivate Service mode".

## Voice help

The system has a voice help menu. During a voice call to the system, dial **9\*** and listen to the information about system control commands.

To end the session, hang up the phone.

## Repeat the last message

To repeat any message, press \* during a voice call to the system.

## Arming/Disarming

1. Call the system number. Wait for the answer.
2. Dial **1\*** to arm, and **0\*** to disarm. For silent arming dial **10\*** or **00\*** for silent disarming
3. The system will confirm arming/disarming. To end the session, hang up the phone.

## Enabling/disabling automatic engine starts Pandora systems have a function of prompt disabling automatic engine start:

1. Call the system number and wait for the answer.
2. Dial **987\*** to disable all automatic engine starts or **789\*** to enable.
3. The system will confirm execution of the command. To end the session, hang up the phone. Automatic

starts can be enabled again by dialing **789\*** (all previous settings will remain intact).

#### **Request current coordinates**

1. Call the system number. Wait for the answer.
2. Dial **500\***.
3. The system will confirm: 'Current coordinates are sent via text message' and will send text message with coordinates and a web link to a map to your phone.  
To end the session, hang up the phone.

#### **Request GSM balance**

1. Call the system number. Wait for the answer.
2. Dial **100\***.
3. The system will confirm: 'Balance information is sent via text message' and will send text message with account balance information to your phone.  
To end the session, hang up the phone.

#### **Tow truck mode**

This mode is intended for car transportation with preservation of arming function. Tow truck mode can be activated only when the system is armed, it will be deactivated automatically when disarming.

1. Call the system number. If the system is in PANIC mode, receive an emergency call. Wait for the answer.
2. Dial **15\***, to enable the "Tow truck" mode, the system will disable motion, shock and tilt sensors. To end the session, hung up the phone.
3. To disable this mode, disarm the system.

#### **Activating/Deactivating engine blocking**

You can block a car engine using any phone. The engine will remain blocked until phone command 'Unlock engine' will be sent and the "Secret PIN-code" will be entered. This blocking cannot be disabled using a remote control or VALET button.

1. Call the system number and wait for the answer.
2. Dial **666\*** to block an engine or **999\*** to unlock it (after dialing **999\*** you should enter the "Secret PIN code" that is located on the owner's card).

 ALL OTHER COMMANDS CAN BE ENTERED IN THE SAME MANNER.

## **Changing settings via a phone**

Disarm the system, call the system number, wait for the answer, switch on the ignition for 1-3 seconds (but no more than 5 seconds), then switch it off. The system will enter the settings mode.

#### **An example of changing the owner's system number**

1. Enter the setting menu via a phone according to the instruction above;
2. Dial DTMF command **1\***(phone number settings) and **1\***(owner's system number);
3. Enter new owner's number in the format \*XXXXXXXXXX # (the system recognizes '#' as '+');
4. To confirm, dial **1\***.


 THERE ARE 2 WAYS TO CHANGE MAIN OWNER'S PHONE NUMBER:


1. VIA A PHONE, USING DTMF COMMANDS SETTINGS MODE.
2. USING RADIO TAG S AND THE VALET BUTT ON:
  - DISARM THE SYSTEM, GET IN THE VEHICLE, CALL THE SYSTEM PHONE NUMBER, WAIT FOR THE ANSWER (DIAL THE "GUEST PIN-CODE" (DEFAULT VALUE IS 1-2-3-4) IF YOU ARE CALLING NOT FROM THE MAIN OWNER'S NUMBER);
  - PRESS AND HOLD THE CONTROL BUTT ON ON THE RADIO TAG UNTIL TWO FLASHES OF THE LED INDICATOR (2 SECONDS) OR SHORTLY PRESS THE VALET BUTTON;
  - THE SYSTEM WILL RECOGNIZE THE INCOMING PHONE NUMBER AS THE "MAIN OWNER'S PHONE NUMBER".

#### **An example of entering a balance request number**

1. Follow the instructions above to proceed with the system settings mode.
2. Press keys 1 and 'star' to program telephone numbers, then press keys 4 and 'star' to enter a balance request number.
3. Enter the balance request number of the cellular operator, and when finished, press the hash '#'.  
4. To confirm entering the balance number, you must press the 1 and 'star' keys.

Once the balance request number has been entered, a balance request can be made using the 100\* command (see section "CONTROL THE SYSTEM BY A PHONE") and the system also begins periodically sending SMS messages about the balance status to the phone number of the system owner.

 ON THE 28TH OF EVERY MONTH, AN AUTOMATIC SMS MESSAGE ABOUT THE BALANCE STATUS IS SENT. ADDITIONAL INFORMATION PROVIDED BY THE CELLULAR OPERATOR MAY BE INCLUDED IN INFORMATION ABOUT THE BALANCE STATUS.

 INFORMATION ABOUT THE BALANCE STATUS AND THE ACCURACY OF ITS DETERMINATION DEPEND ON THE SPECIFICS OF THE MOBILE OPERATOR.

<b>1 *</b> Phone number settings	1 *	Owner's number -> #
	2 *	Additional owner's number -> #
	3 *	Second additional owner's number -> #
	4 *	Account balance inquiry number -> #
	5 *	System's number -> «#»
<b>2 *</b> Settings of the voice calls	1 *	Voice calls on alarm
	2 *	Voice calls on triggering warning level of the sensors
	3 *	Voice calls on engine start
	4 *	Voice calls on engine stop
	5 *	Voice calls on restoring GSM connection
	6 *	Voice calls on disarming
	7 *	Voice calls on entering programming mode
	8 *	Voice calls when radio relay connection is lost
	9 *	Voice calls when on-board voltage is low
	0 *	Voice calls on accident
<b>3 *</b> Settings of the text messages	1 *	Text messages on alarm
	2 *	Text messages on triggering warning level of the sensors
	3 *	Text messages on engine start
	4 *	Text messages on engine stop
	5 *	Text messages on restoring GSM connection
	6 *	Text messages on disarming
	7 *	Text messages on entering programming mode
	8 *	Text messages when radio relay connection is lost
	9 *	Text messages when on-board voltage is low
	0 *	Text messages on accident
	<b>4 *</b> Immobiliser settings	1 *
2 *		Anti-Hi-Jack

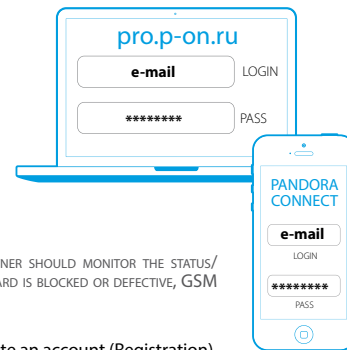
<b>5 *</b> Additional settings	1 *	Changing Guest PIN-code
	2 *	Entering as guest
	5 *	Set threshold voltage for sending text message
<b>6 *</b> Automatic engine start settings	1 *	By time
	2 *	Set up time for automatic start
	3 *	By voltage
	4 *	Set up voltage for automatic start
	5 *	By temperature
	6 *	Set up temperature for automatic start
	7 *	By period
	8 *	Set up period for automatic start
<b>7 *</b> Sensor sensitivity settings	1 *	Settings of the warning level of the shock sensor sensitivity
	2 *	Settings of the alarm level of the shock sensor sensitivity
	3 *	Settings of the motion sensor sensitivity
	4 *	Settings of the tilt sensor sensitivity
	5 *	Settings of the warning level of the supplementary sensor sensitivity
	6 *	Settings of the alarm level of the supplementary sensor sensitivity
<b>8 *</b> Settings of saving mode	1 *	GSM connection
	2 *	Money saving mode of the GSM connection
	3 *	Voice calls in roaming service
<b>9 *</b> Current time and date settings	1 *	Set up date
	2 *	Set up time

**NOTE: Engine start via temperature is available only if temperature sensor is connected. The sensor availability depends on the system set**

## ONLINE SERVICE AND MOBILE APPLICATIONS

Telemetric functions of the system allow you to control your vehicle using the online service [pandora-on.com](http://pandora-on.com) or mobile app – Pandora Connect. A SIM card with Internet access is installed in the system to provide this functionality.

When approaching the vehicle or when Internet connection is missing a mobile phone with the app installed can work with the system via a Bluetooth connection. The mobile phone must be paired with the system.



**!** FOR THE CORRECT OPERATION OF THE GSM FUNCTIONS, AN OWNER SHOULD MONITOR THE STATUS/BALANCE OF THE SIM CARD INSTALLED IN THE SYSTEM. IF THE SIM CARD IS BLOCKED OR DEFECTIVE, GSM FUNCTIONS OF THE SYSTEM WILL BE UNAVAILABLE.

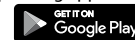
Before using the online-service, it is necessary to create an account (Registration), login to your account (using your email and password created on the registration step) and add the system to your account (enter information from the Owner's personal card).

Web-service: <https://pandora-on.com>.

The **Pandora Connect** mobile app is available for downloading from the corresponding app store:

**App Store** for iOS devices;

**Google Play** for Android devices.



**!** THE MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES OF THE INTERFACE AND FUNCTIONALITY OF THE INTERNET SERVICE AND MOBILE APPLICATION WITHOUT NOTIFYING THE CONSUMER.



## Registration

Visit the website or open the mobile app to create an account. You will create the data to sign in: LOGIN - your email, PASSWORD - a password entered during the registration. You will receive an email with a confirmation link. Click the link to complete the registration procedure.

## Login

After completing of the registration process, you can login to the online service via a computer's web browser or via the mobile application Pandora Connect. Use your previously created data:

**Login** - your e-mail;

**Password** - previously created password.

## Adding a system to your account

The created account can support up to 3 telemetry systems. Use the information from the Owner's personal card to add the system to your account.

Go to the «Add a device/Add a system» window and enter the LOGIN and PASS from the Owner's personal card, create a name for your vehicle and click «Add». If you need to use several systems/devices on the same account: enter the application settings, click «Change», click «+», in the «Device Registration» window, enter the data of a new system/device located on the Owner's personal card.

**!** ERASE THE PROTECTIVE LAYER CAREFULLY. DO NOT USE ANY SHARP OBJECTS TO AVOID DAMAGING OF HIDDEN INFORMATION UNDER THE PROTECTIVE LAYER.

**After this, you will be able to control, change settings and get information about the vehicle state through the online-service.**

## Writing a mobile device to the system memory

When approaching the vehicle or when Internet connection is missing a mobile phone with the mobile application Pandora Connect installed can work with the system via a Bluetooth connection. This type of connection allows you to control the system, receive status information and use your mobile phone as an authorization device. After installing the mobile application pair your mobile device with the system.

**!** THE SYSTEM SUPPORTS BLUETOOTH CONNECTION ONLY WITH ONE MOBILE DEVICE.

### I. ENTER THE PROGRAMMING MODE

Use the VALET button to enter the «Service PIN-code» (default value is 1-1-1-1). See the detailed description of the procedure in the «Control over the system in case of emergency» section.

### II. ENTER THE «PAIRING A MOBILE PHONE» PROGRAMMING LEVEL

After entering programming mode, press and hold the VALET button for 5 seconds (until the fifth signal of the siren/beeper). The system will enter the «Pairing a mobile phone» programming level. The LED indicator will light green, the system is ready for pairing.

**!** THE PREVIOUSLY PAIRED DEVICE WILL BE ERASED FROM THE SYSTEM MEMORY AFTER ENTERING THE LEVEL.

### III. PAIR A MOBILE DEVICE

Enable the Bluetooth connection in the mobile device, enter the app settings, click «Bluetooth control», click «Not defined». In the search box, establish a connection with the detected system. The red and green flashes of the «LED» indicator light and a single siren sound will confirm the pairing.



**!** IF THERE IS NO AUTOMATIC PAIRING, ENABLE THE «PIN REQUEST FOR PHONE PAIRING» ITEM IN THE «RADIO TAG AND MOBILE DEVICE FUNCTIONS» SETTINGS AND MAKE THE PAIRING PROCEDURE AGAIN. A MOBILE DEVICE WILL REQUEST A PIN-CODE (DEFAULT VALUE IS 0-0-1-1-1-1 WHERE 4 LAST DIGITS ARE THE «SERVICE PIN-CODE»). THIS SETTING SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

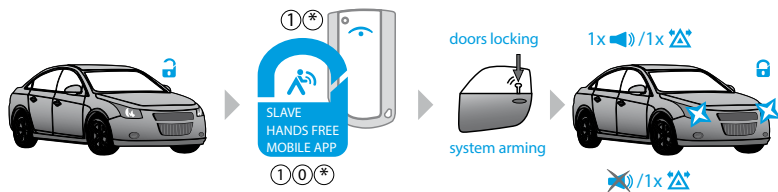
### IV. EXIT PROGRAMMING MODE

Turn on the ignition and then turn off to exit programming mode.


## CONTROL THE SYSTEM

### Arming

To arm the system when the ignition is off, use one of the methods described below. The system will confirm the command with 1x  short sound signal and 1x  flash of light signalization.



#### Radio tag

A radio tag must be in the Bluetooth coverage area. Shortly press the  control button on the tag.


#### Slave mode

Shortly press the "Lock" button on an original remote control of a vehicle or use the sensor/button on the door handle (for cars with an intelligent access system).


#### Phone

Call the system number. Wait for the answer. Dial the 100 command. To arm the system without siren signals dial the 100.

#### Online service PANDORA-ON.COM

Login to the PANDORA-ON.COM, when the system is online (there is an Internet connection) press the  button on the control panel.

#### Mobile application Pandora Connect

Open the mobile application. When the system is online (there is an Internet or Bluetooth connection), press and hold the  button on the control panel until the scale is fully loaded.

#### HandsFree mode



Move with an authorization device away  from your vehicle.

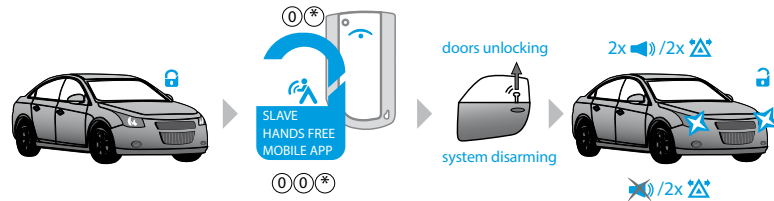
#### VALET button

Press and hold the VALET button for 3 seconds. The system will be armed in 30 seconds. The LED indicator is lighting red during the countdown.


! THERE IS AN OPTION IN THE SYSTEM SETTINGS THAT ALLOWS TO ARM THE SYSTEM WITH DISABLED SENSORS (SHOCK/TILT/MOTION AND ADDITIONAL SENSORS). THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

### Disarming

To disarm the system, use one of the methods described below. The system will confirm the command with 2 short sound signals 2x  and 2 flashes of turn indicators 2x .



#### Radio tag

A radio tag must be in the Bluetooth coverage area. Shortly press the  control button on the tag.


#### Slave mode

Shortly press the "Unlock" button on an original remote control of a vehicle or use the sensor/button on the door handle (for cars with an intelligent access system).


#### Phone

Call the system number. Wait for the answer. Dial the @☎ command. To disarm the system without siren signals dial the @☎☎.


#### Online service PANDORA-ON.COM

Login to the PANDORA-ON.COM, when the system is online (there is an Internet connection) press the  button on the control panel.

#### Mobile application Pandora Connect

Open the mobile application. When the system is online (there is an Internet or Bluetooth connection), press and hold the  button on the control panel until the scale is fully loaded.


#### HandsFree mode

Move towards the vehicle with an authorization device .


#### VALET button

Enter the "Secret PIN-code" (see the "Emergency disarming using the VALET button" section).

### Unlocking the trunk

**The system allows to unlock the trunk no matter if the system is armed or not. If the system is armed when this action is performed, the trunk will be disarmed, shock and supplementary sensors will be disabled. All the other security zones will remain armed. If the trunk was not opened in 15 seconds after using «unlock trunk» command, the system will lock it again, enable sensors and arm trunk security zone. This will be indicated with 1 flash of turn signals 1x .**

#### Mobile application Pandora Connect

Open the mobile application. When the system is online (there is an Internet or Bluetooth connection), press and hold the  button on the control panel until the scale is fully loaded.


#### Slave mode

Shortly press the open trunk button on a factory remote control or use a sensor/button on a trunk door (for cars with an intelligent access system).



### Locking/unlocking doors when ignition is on

**The system allows you to lock and unlock doors when ignition is on. To do this, use one of the methods described below.**

#### Radio tag

A radio tag must be in the Bluetooth coverage area. Shortly press the  control button on the tag.

#### Mobile application Pandora Connect

Open the mobile application. When the system is online (there is an Internet connection), press and hold the  button to lock doors or the  button to unlock doors on the control panel until the scale is fully loaded.

#### Automatic modes

There are automatic lock modes that will lock the doors:

- on switching on the ignition - the doors will be locked automatically 5 seconds after the ignition was switched on;
- at the car movement - the system will detect car moving or change of parking brake position and perform doors locking (if speed status missing in a digital CAN-bus locking will be performed by motion sensor)
- on switching off the ignition - doors will be automatically unlocked when the ignition is switched off.


 THIS MODE IS DISABLED BY DEFAULT. THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN.



## PANIC mode


If your vehicle or you are in danger and you want to draw attention to your vehicle, you can use PANIC mode. In this mode the siren will sound  and turn signals  will flash repeatedly for 30 seconds.

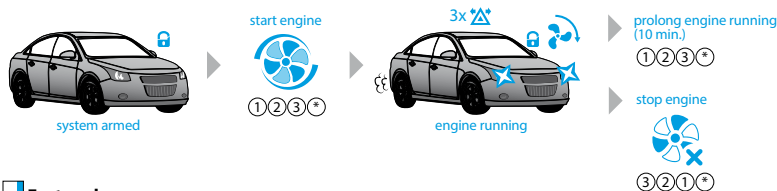
### Mobile application Pandora Connect

Open the mobile application. When the system is online (there is an Internet or Bluetooth connection), press and hold the  button on the control panel until the scale is fully loaded.

To switch this function off press and hold the  button on the control panel until the scale is fully loaded.

## Remote engine start

If the system is ready for remote engine start, use one of the methods described below to start the engine, the system will confirm the command with 3x  light signalization.



### Factory key

The system reads digital information from a car, this allows you to start and stop the engine by a factory key:

- To start the engine, press the «LOCK» button 3 times within 5 seconds (the key must be in the radio coverage zone).
- To stop the engine, press the «LOCK» button 3 times within 5 seconds (the key must be in the radio coverage zone).



! REMOTE ENGINE START BY AN ORIGINAL KEY DOES NOT REQUIRE ANY ADDITIONAL SETTINGS. CHECK IF THE FUNCTION AVAILABLE FOR YOUR CAR IN [LOADER.PANDORAINFO.COM](http://LOADER.PANDORAINFO.COM)

THE FUNCTION BECOMES AVAILABLE ONLY 30 SECONDS AFTER ARMING.






### Phone

- To start the engine, call the system number, wait for the answer. Dial the command 1 2 3 \*. If you repeat the command 1 2 3 \*, when the engine is running, it will prolong the operation period by 10 minutes (this procedure can be repeated multiple times).
- To stop the engine, call the system number, wait for the answer. Dial the command 3 2 1 \*.

### Online service PANDORA-ON.COM

- To start the engine, login to the PANDORA-ON.COM, when the system is online (there is an Internet connection) press the START ENGINE button on the control panel. In a few seconds the engine will be started, it will be confirmed with the spinning icon .
- To stop the engine, press the STOP ENGINE button on the control panel. In a few seconds the engine will be stopped and the spinning icon  will be faded.

### Mobile application Pandora Connect

- To start the engine, open the mobile application. When the system is online (there is an Internet or Bluetooth connection) press and hold the START ENGINE  button on the control panel until the scale is fully loaded. In a few seconds the engine will be started, it will be confirmed with the spinning icon .
- Sending the command again (press the  icon and confirm command) will extend operation period of the remote or automatic engine start by 10 minutes. This procedure can be repeated multiple times.
- To stop the engine, press and hold the STOP ENGINE  button on the control panel until the scale is fully loaded. In a few seconds the engine will be stopped and the spinning icon  will be faded.

## Engine preheater

Use one of the methods described below for remote start of the engine preheater.


### Phone


For remote control of the engine preheater, call the system number, wait for the answer and dial the command:

- 1 5 6 \* - to start the engine preheater. The system will confirm command by a voice message "Switch on engine preheater";
- 6 5 1 \* - to stop the engine preheater. The system will confirm command by a voice message "Switch off engine preheater".


If the control of the preheater operation function is implemented, a voice message "Engine preheater switched on" will play in the main voice menu for the entire duration of the preheater operation.


### **Online service PANDORA-ON.COM**

For remote control of the engine preheater, login to the PANDORA-ON.COM, when the system is online (there is an Internet connection) press the  button on the control panel.

If the control of the preheater operation function is implemented, the  icon will be displayed for the entire duration of the preheater operation.

### **Mobile application Pandora Connect**


Open the mobile application. When the system is online (there is an Internet or Bluetooth connection), press and hold the  button on the control panel until the scale is fully loaded.

If the control of the preheater operation function is implemented, the  icon will be displayed for the entire duration of the preheater operation.

 TO CHANGE BUTTONS LAYOUT OR ADD NEW BUTTONS ON THE CONTROL PANEL, GO TO "SETTINGS" -> "CONTROL BUTTONS" MENU OF THE APPLICATION.

### **Automatic operation of the preheater**

The mobile app settings allow to turn on and off the preheater before remote and automatic engine start (except remote start by voltage). Automatic operation of the preheater is possible according to the following parameters: switching on and off according to the engine temperature, operating time.


 THE PREHEATER SWITCHING ON AND OFF BY TEMPERATURE IS ONLY POSSIBLE WHEN THE ENGINE TEMPERATURE SENSOR IS CONNECTED. SPECIAL SETTINGS OF THE SYSTEM CAN USE ENGINE PREHEATER AS ADDITIONAL HEATER FOR THE ENGINE AND INTERIOR WHEN OUTSIDE TEMPERATURE IS LOW (LESS +5C). THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN, THE ENGINE TEMPERATURE SENSOR MUST BE CONNECTED.

## Service mode

It is recommended to put the system into the Service mode before handing it to a service station or valet parking. When this mode is switched on, security system stops interfering with built-in electronics and disables all functions to ease maintenance.



- **To activate Service mode, disarm the system, turn on the ignition, an authorization device (radio tag, remotes, watches, band) must be in the Bluetooth coverage zone, enter the «Immobiliser PIN-code» (if the «Code immobiliser» function is used) and use one of the methods described below.**
- **To deactivate Service mode, use one of the methods below without any additional conditions (ignition, authorization devices, system modes).**

### **Radio tag**


To activate/deactivate Service mode, press and hold the  button on a radio tag for 3 seconds (until the third flash of the **SEND** LED), release the button.

### **Phone**

Call the system number, wait for the answer:

- to activate Service mode, dial the  command and the "Secret PIN-code" from the Owner's personal card;
- to deactivate Service mode, dial the .

### **Mobile application Pandora Connect**

To activate/deactivate Service mode, open the mobile application. When the system is online (there is an Internet or Bluetooth connection), press and hold the  button on the control panel until the scale is fully loaded.

 TO CHANGE BUTTONS LAYOUT OR ADD NEW BUTTONS ON THE CONTROL PANEL, GO TO "SETTINGS" -> "CONTROL BUTTONS" MENU OF THE APPLICATION.

### **Code immobiliser**

To activate Service mode, enter the "Immobiliser PIN-code" and press the Code immobiliser button 10 times within 20 seconds.



To deactivate Service mode, turn on the ignition and enter the "Immobiliser PIN-code".

## Automatic mode

The system can automatically deactivate Service mode when vehicle starts driving (speed increases) and the owner authorization device (radio tag, Bluetooth remote control, watches or mobile device) is in the radio coverage zone.

THIS FUNCTION DOES NOT REQUIRE ADDITIONAL CONFIGURATIONS. SEE DETAILED INFORMATION ABOUT "SPEED" FUNCTION ON [LOADER.PANDORAINFO.COM](http://LOADER.PANDORAINFO.COM).

## Service mode indication

- Activated Service mode is indicated by: an  icon in the mobile application, constant green LED when the ignition is on, long sound signal of a Beeper at the moment you activate the mode.
- Deactivated Service mode is indicated by: no  icon in the mobile application, no constant green LED when the ignition is on, two long sound signals of a Beeper at the moment you deactivate the mode.

## CONTROL OF THE SYSTEM IN CASE OF EMERGENCY

BEFORE USING EMERGENCY SYSTEM CONTROL, CHECK THE SYSTEM AND VEHICLE CONTROL DEVICES: CHECK A BATTERY, TURN ON A DEVICE IN ACCORDANCE WITH ITS MANUAL (IF REQUIRED).

IF ALL DEVICES ARE WORKING, TRY TO MAKE A PRIMARY VEHICLE DIAGNOSIS: CHECK THE VEHICLE ORIGINAL CONTROL DEVICE, VEHICLE BATTERY CHARGE LEVEL, GEARBOX SELECTOR POSITION, CHECK INFORMATION ON THE DASHBOARD.

### THE SYSTEM CAN BE CONTROLLED FROM A PHONE

Call the system phone number and enter the command after the answer:

0\* – Disarming

998\*xxxx – Deactivate authorization devices, where XXXX is the «Secret PIN- code» written on the Owner's personal card.

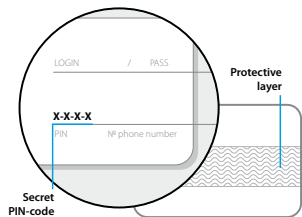
THE PHONE NUMBER OF THE SYSTEM IS LOCATED UNDER THE PROTECTIVE LAYER ON THE OWNER'S PERSONAL CARD. IF THE CALL IS MADE FROM THE «ADDITIONAL NUMBER», OR A NUMBER NOT SAVED IN THE MEMORY OF THE BASE UNIT, THEN AFTER THE SOUND SIGNAL, YOU WILL NEED TO ENTER THE «GUEST PIN CODE» (FACTORY VALUE IS 1-2-3-4). FOR A COMPLETE LIST OF COMMANDS, SEE THE SECTION «CONTROL THE SYSTEM BY A PHONE».

The system has emergency ways to deactivate security and Anti-Hi-Jack functions (using the VALET button and the «Secret PIN-code») in case of loss or failure of control devices or in case of discharge of a battery (when you cannot replace it or charge).

- «Secret PIN-code» is located under protective layer on the Owner's personal card;
- VALET button is located on the base unit and on the external VALET button.

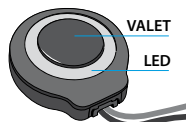
## Owner's personal card

REMOVE THE PROTECTIVE LAYER CAREFULLY. DO NOT USE ANY SHARP OBJECTS TO AVOID DAMAGING OF HIDDEN INFORMATION UNDER THE PROTECTIVE LAYER.



## External VALET button

THE EXTERNAL VALET BUTTON IS PLACED IN THE INTERIOR (CHECK «SYSTEM MODULES LAYOUT»).



- **Enter the fourth digit** • Press the button the number of times equal to the fourth digit. Pauses between presses should not exceed 1 second. Each pressing will be confirmed with a green LED indicator flash. The correct input will be confirmed with the series of green and red flashes of the LED indicator.

## Emergency disarming/ Beach mode deactivation

If the doors are locked, open the door with the original key. Not paying attention to the siren signals, make sure that the ignition is off and enter the «Secret PIN-code» (see the procedure description above) with the VALET button. If there are no siren sounds or LED flashes, check the battery. It is not possible to enter the «Secret PIN-code», if there is no power supply.

- The system will be disarmed in case of correct PIN-code input. It will be confirmed with the series of green and red flashes of the LED indicator, the series of sound signals of the beeper, 4 beeps of the siren and 4 signals of the light signalization (notification of the security zones triggered). Emergency disarming is equivalent to a normal method of disarming. No additional actions are required for further operation of the system.
- The system will stay in the previous state in case of incorrect input of the PIN-code. It will be indicated with a long red flash of the LED indicator and a short single sound of the beeper. New input can be attempted after 5 seconds.

## Emergency control of the anti-theft functions

This section describes two options to deactivate Immobiliser modes:

- Immobiliser and Anti-Hi-Jack - use owner authorization devices (tags, remotes, watches, bands) for engine blocking;
- Code Immobiliser - uses standard vehicle controls (buttons, levers, pedals) to enter the "Immobiliser PIN-code".

### OPTION №1 – EMERGENCY DEACTIVATION OF ANTI-THEFT MODES

This option is used for a temporary deactivation of the anti-theft modes. Deactivation is made by entering the "Secret PIN-code" with the VALET button when the system is disarmed and the Service mode disabled.

- To temporarily deactivate the Immobiliser or/and Code Immobiliser (pin-to-drive) functions, turn on the ignition when the system is disarmed and enter the «Secret PIN-code» from the Owner's personal card using the VALET button. The Immobiliser and Code Immobiliser functions will be deactivated by the time the ignition is turned off.

## OPTION №2 – EMERGENCY DEACTIVATION OF ANTI-THEFT FUNCTIONS

This method is used for a permanent deactivation of the anti-theft functions. Deactivation and activation are made by entering the «Secret PIN-code» from the Owner's personal card using the VALET button while system is disarmed, ignition is off and the Service mode is disabled.

**1. Enter the programming mode** • By entering the «Secret PIN-code» (from the Owner's personal card) or the «Service PIN-code» (default value is 1-1-1-1).

**2. Code Immobiliser** • Enter the programming level №13 - press the VALET button 13 times (without pauses).

**2. Immobiliser / Anti-Hi-Jack** • Enter the programming level №15 - press the VALET button 15 times (without pauses).

**3. To deactivate the function** • The LED indicator will be green after entering the programming level. The system will wait 10 seconds for entering the «Secret PIN-code». If the PIN-code is not entered within 10 seconds or the input is incorrect, the system will return to the programming menu. Enter the «Secret PIN-code» that is written on the Owner's personal card. The system will confirm deactivating with a long red LED flash and two sound signals of the Siren. Turn on the ignition and then turn off to exit programming mode. The function will be deactivated.

**4. To activate the function** • The LED indicator will light red after entering the programming level. The system will wait for action. Press the VALET button once to activate the function. The system will confirm enabling with one short sound signal of the Siren and a green LED light. Turn on the ignition and then turn off to exit programming mode. The function will be activated.

## ADDITIONAL DEVICES

**Bluetooth remote R-500BT | R-468BT** is a one-way short-distance communication device designed to control a security system. The remote control can be used as an owner authorization device.

### CONTROL COMMANDS

Arming/Disarming | Trunk | Remote engine start | Engine pre-heater

### STATUSES

Immobiliser | Anti-Hi-Jack | Hands Free

RADIO INTERFACE 2.4GHz (BLUETOOTH) | THREE CONTROL BUTTONS | SOUND INDICATOR | LED INDICATOR | CR2032 BATTERY



**Immobiliser radio tag BT-785 / 780 | BT-770 | BT-765 / 760(V)** is a one-way short-distance communication device designed to control a security system. The tag can be used as an owner authorization device.

### CONTROL COMMANDS

Arming/Disarming | Service mode

### OWNER AUTHORIZATION

Immobiliser | Anti-Hi-Jack | Hands Free

RADIO INTERFACE 2.4GHz (BLUETOOTH) | CONTROL BUTTON | LED INDICATOR | MOTION SENSOR | CR 2032 BATTERY



**Blocking radio relay BTR-101V | BTR-101** is a wireless device designed to perform blocking engine blocking based or not based on car movement.

RADIO INTERFACE 2.4GHz (BLUETOOTH) | BUILT-IN BLOCKING RELAY (NC) | MOTION SENSOR



**DMS-105BT | DMS-101BT | DMS-100BT** is a wireless device designed to monitor internal or external perimeter state: any security zone can be assigned to the Hall/shock/tilt sensor state; temperature monitoring. The sensor can be installed on a door, hatch, trunk, tail, garage door.

DMS-105BT: RADIO INTERFACE 2.4GHz (BLUETOOTH) | HALL SENSOR | TEMPERATURE SENSOR | SHOCK/TILT SENSOR | WATER SENSOR | WATERTIGHT | CR123A BATTERY

DMS-101BT: RADIO INTERFACE 2.4GHz (BLUETOOTH) | HALL SENSOR | TEMPERATURE SENSOR | SHOCK/TILT SENSOR | 2xCR2450 BATTERIES

DMS-100BT: RADIO INTERFACE 2.4GHz (BLUETOOTH) | HALL SENSOR | TEMPERATURE SENSOR | SHOCK/TILT SENSOR | CR123A BATTERY



**Movement sensor PIR-100BTM | PIR-100BT** is a wireless device designed to monitor internal volume of a vehicle for thermal movement.

PIR-100BTM: RADIO INTERFACE 2.4GHz (BLUETOOTH) | PIR-SENSOR | REMOVAL SENSOR | SHOCK/TILT SENSOR | CR123A BATTERY

PIR-100BT: RADIO INTERFACE 2.4GHz (BLUETOOTH) | PIR-SENSOR | REMOVAL SENSOR | CR123A BATTERY



**Radio module RHM-03V** is a wireless device designed to control equipment of the engine compartment:

- Control of Hood lock, siren, engine blocking based or not based on car movement, digital control of engine pre-heaters Eberspacher and Webasto;
- Statuses of temperature, engine pre-heater, Trunk security zone.

RADIO INTERFACE 2.4GHz (BLUETOOTH) | BUILT-IN RELAY (NC) | MOTION SENSORS | TRUNK SWITCH INPUT | EXTERNAL TEMPERATURE SENSOR | OUTPUTS: SIREN, HOOD LOCK ENGINE PRE-HEATERS (LIN)



## WARRANTY OBLIGATIONS

Manufacturer guarantees correct operation of the service-security system if exploitation, installation, storage and transportation conditions described in this manual were met.

The system should only be used according to installation scheme and user manuals.

The system is meant to be installed by the professional car electronics installers. The installer should fill in installation certificate that is included in this manual.

Parts malfunctioning during warranty period on the fault of the manufacturer should be repaired or replaced by the installation center of the manufacturer or by certified service center. List of certified service centers can be found on [pandorainfo.com](http://pandorainfo.com)

The user loses the right for warranty services in the following cases:

- when warranty period expires;
- if exploitation, installation, storage or transportation conditions were not met;
- if there is mechanical damage of the external parts of the system after it is sold.

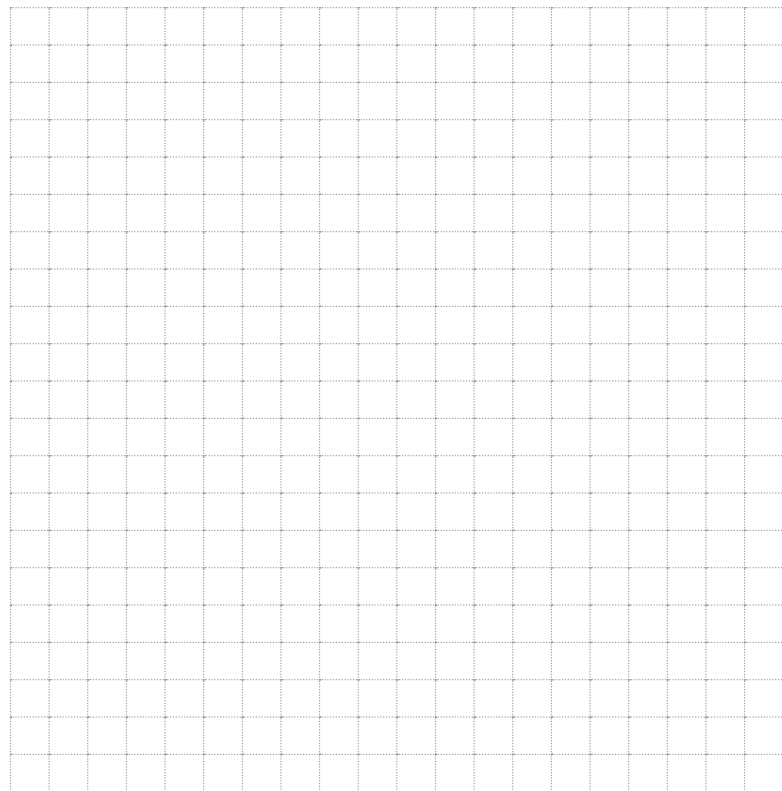
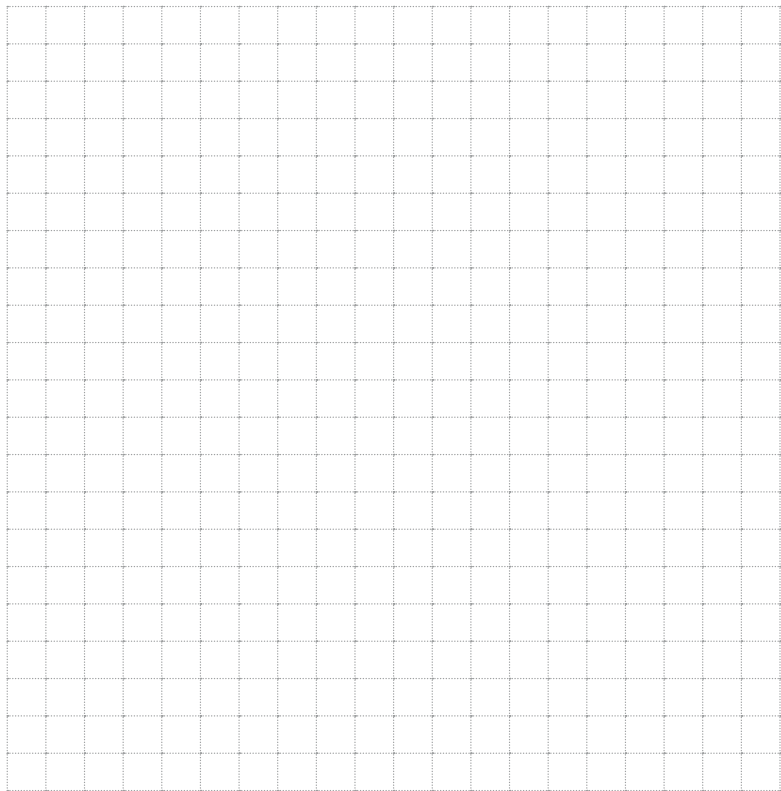
This includes: fire damage, consequential damage in case of car accident, aggressive liquids and water seeping damage, damage caused by improper use;

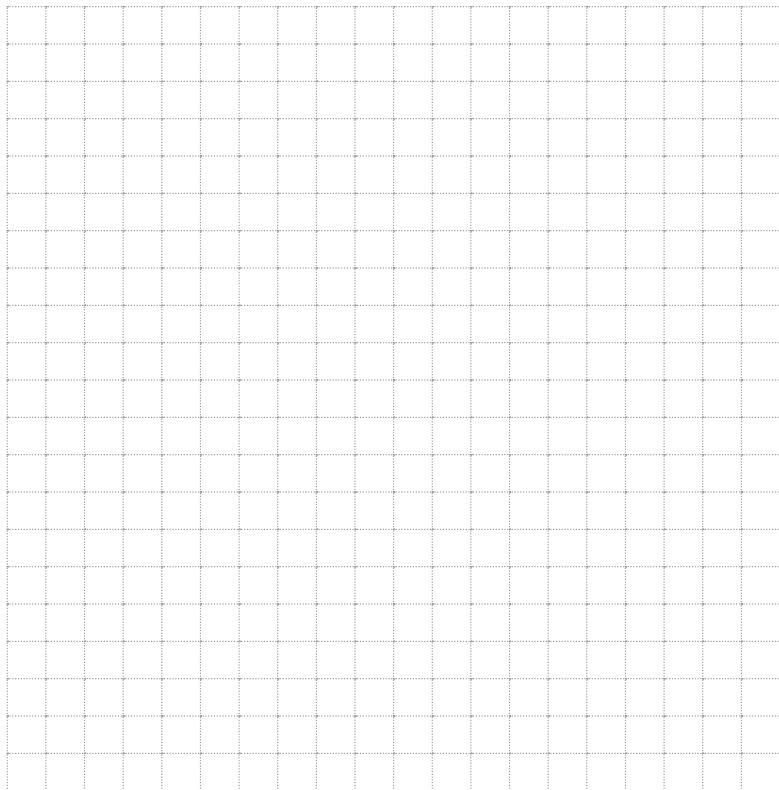
- if the damage was caused with incorrect settings and parameter adjustment;
- if system devices are replaced with any devices that are not recommended by the manufacturer;
- if manufacturer sealing is broken;
- if there is no properly filled warranty card and installation certificate.

Warranty period is 3 years since the moment of purchase, but no more than 3.5 (three and a half) years since the moment of production. This warranty does not include batteries of the remotes, as they have their own service lifetime.

Maintenances and repairs of the system with expired warranty period are carried out at the expense of the user on a separate contract between the user and the installer/service center.

**!** WE RECOMMEND THAT YOU ASK AN INSTALLER TO FILL OUT THE INSTALLATION CERTIFICATE AND THE WARRANTY CARD. THESE DOCUMENTS MAY BE REQUIRED FOR CONTACTING THE CUSTOMER SUPPORT.





## INSTALLATION CERTIFICATE

I, the undersigned \_\_\_\_\_  
Position, name. \_\_\_\_\_

professional installer, certify that installation of the service-security system, specified below, was carried out by me in accordance with manuals and schemes provided by the manufacturer.

### Car specifications:

Car model \_\_\_\_\_ Type \_\_\_\_\_

Id number (VIN) \_\_\_\_\_

Registration number \_\_\_\_\_

Security system specification:

### Pandora Smart v4

Serial number \_\_\_\_\_

Service center name, full address and installer's stamp  
\_\_\_\_\_  
\_\_\_\_\_

Signature \_\_\_\_\_ / \_\_\_\_\_ /

Signator

Work accepted \_\_\_\_\_ / \_\_\_\_\_ /

Signator

Date « \_\_\_\_ » \_\_\_\_\_ 20\_\_ year.



## ACCEPTANCE CERTIFICATE

**Pandora Smart v4** is in conformity with Electromagnetic Compatibility Directive EMC 2004/108/EC and R&TTE Directive 1999/5/EC.

Serial number \_\_\_\_\_ Date of production \_\_\_\_\_

Responsible person's signature (stamp)

Packager \_\_\_\_\_

Signature (personal stamp)

## WARRANTY CARD

**Pandora Smart v4**

Serial number \_\_\_\_\_

Date of purchase « \_\_\_\_ » \_\_\_\_\_ 20\_\_ year

\_\_\_\_\_  
Seller's (installer's) stamp

\_\_\_\_\_  
Seller's signature