Pandora

Pandora would like to thank you for
choosing our
MOTO EU service and security system

Pandora MOTO EU is a service and security system designed for motorcycles.

Pandora is the exclusive brand of security systems fully developed and manufactured in Russia.The manufacturing has its owen R&D department and more than 10 years of experience in the development of car-alarms making it able to offer the latest technology with unique features. In 2016, Pandora and TSS Group, have formed a new strategic partnership and thanks to long experience in the car security market, the selected functions and features have been optimized according to needs of EU and european customers.

When building **Pandora MOTO EU** we were using the most up-to-date electronics from world's best manufacturers. The device 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.

Pandora MOTO EU has a cryptographically strong authorization code with unique dialog algorithm and individual 128 bit encryption key on every device. Experimental Engineering Factory guarantees 100% protection form electronic hacking for the whole operation period.

WARNING! IT IS STRONGLY ADVISED TO HAVE PROFESSIONAL
MECHANIC INSTALLING THE SYSTEM. CERTIFIED INSTALLERS A
OUTSIDE RUSSIA, BUT ANY CAR ELECTRONICS INSTALLER SHOULD
INSTALL PANDORA MOTO EU USING INSTALLATION SCHEME IN THIS
AND ALARMSTUDIO SOFTWARE. MOST FEATURES ARE HIGHLY DEPE
ON COMPETENT INSTALLATION. OUR SYSTEMS ARE THOROUGHLY T
FOR QUALITY, SO IF A FEATURE FAILS TO PRODUCE EXPECTED RES
LIKELY THE PROBLEM IS IN IMPROPER INSTALLATION.

It is essential for systems functioning that you read and understand instructions in this manual. Note that all radio devices are subject to interference, which could affect proper performance.

This device has limited external factors resistance. It should not be subjected to water beyond occasional splatter, or operated in temperatures outside -40 to +80° C range

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IMPORTANT! Note that this manual describes remote and manual functions for the most part. Functionality of the system is vast and would require a book-sized manual to fully describe. Instead we use a handy software named AlarmStudio that functions as both programming tool and an extended installation & functionality manual. It requires Windows and can be downloaded at tssgroup.sk

Our website: www.pandorainfo.eu

Product is in comformity wiht Electromagnrtic Comparibility
Directive EMC/2014/108/EC and R&TTE Directive 1999/5/EC

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SYSTEM FEAUTRES

Base unit

- Dialog coding of control commands sent at a frequency of 868 MHz.
- Built-in integral accelerometer for determining motion and shocks with adaptive processing algorithm and sensitivity controls.
- Built-in back-up battery
- Built-in temperature sensor, input for external temperature sensor, sensors reassigning feature
- Software updates via built-in micro-USB socket.
- Monitoring of on-board voltage
- Dialog coding of control commands, Individual 128-bit encryption key that can be changed during recording of the remote control process.
- Event history with exact time stamps is stored in the base unit and is transferred to the remote when it is in range.
- Advanced processing of sensor data, eliminating false alarm possibilities.

2-way LCD remote control

- OLED-display.
- 3 control buttons (arming and disarming buttons, multifunctional button).
- Vibration confirmation of the button press.
- Vibrating alert
- Built-in sound indicator (16 notification ringtones).
- Built-in light indicator (SEND/ALARM)
- Arming/disarming status indication.
- Security zones indication.
- Current time indication.
- Temperature and voltage indication.
- Battery level indicator.
- Time synchronizes with the base unit for exact time stamp in the event history.

- Prompt remote access to the sensitivity settings of sensors (shock/tilt/motion).
- View event history with time and event stamps.
- Automatic control of RF coverage zone.

Security zones

Pandora MOTO EU service-security system guards following independent zones with corresponding zone notifications on the remote and recording alarms into the event history of the main unit:

r5SVOL
r *HOJUJPO USJHHFS
r #SBLF QSFTTJOH
r $MVUDI QSFTTJOH
r5SJHHFSJOH PG UIF TIPDL TFOTPS XBSOJOH BOE E
r5SJHHFSJOH PG UIF NPUJPO TFOTPS
r5SJHHFSJOH PG UIF UJMU TFOTPS
r $SJUJDBMMZ MPX PO CPBSE WPMUBHF

SYSTEM SET

1.	Base unit	1.
2.	Main control remote with LCD	1.
3.	Cable with VALET button and three-colored LED indicator	1.
4.	User installation manual	1.
5.	Analog temperature sensor	1.
6.	Main cable of the base unit	1.
7.	Fastening kit	1.
8.	Reed switch	2.
9.	Blocking Relay	1.
10.	Siren (optional)	1.
11.	Packaging	1.

WARNING! THE MANUFACTURER RESERVES THE RIGHT TO M
CHANGES IN THE PRODUCT SPECIFICATION AND DESIGN TO
ITS TECHNOLOGICAL AND OPERATIONAL PARAMETERS WITHOUT

SYSTEM OPERATION MODES

The system has 2 power saving operation modes. The modes can be adjusted using AlarmStudio.

Power saving mode 1. The system goes to this mode 24 hours (you can set the time interval using AlarmStudio) after last arming/disarming. This mode reduces energy consumption by 25%. Delay of the first command from the remote control is slightly increased in this mode.

Power saving mode 2. The system goes to this mode 10 day (you can set the time interval using AlarmStudio) after last arming/disarming. This mode reduces energy consumption by 50%.

**WARNING! RADIO CHANNEL IS DISABLED IN THE POWER SAVIN
2. SYSTEM CANNOT BE CONTROLLED VI A REMOTE CONTROL I
MODE. ALL SECURITY ZONES REMAIN ACTIVE. READ THE SECTION E
ENTABLE RADIO CHANNEL**

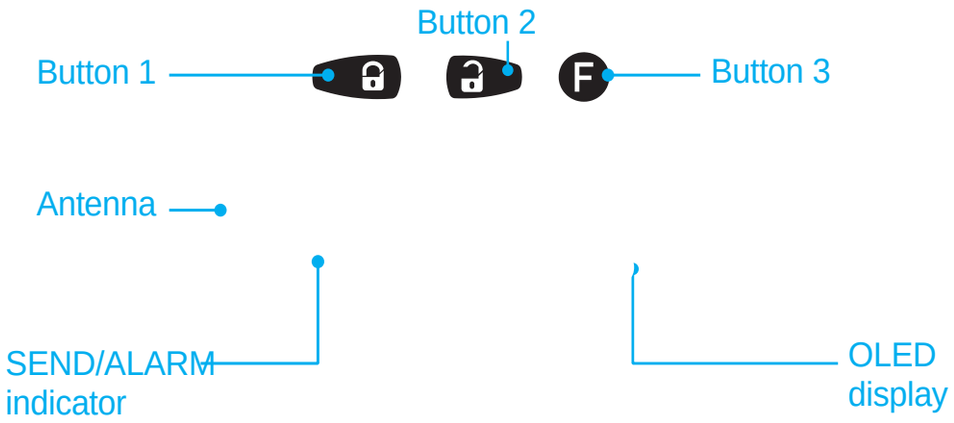
To exit the power saving mode 2 and enable radio channel, change the status of any security zone (ignition, clutch handle, shock/tilt/motion sensor etc.). The siren will emit one sound signal if the system is armed. After that the system will wait for a disarming command from the remote control for 5 seconds. If the command is not received, alarm will triggered.

REMOTE CONTROL

Two-way remote is the main mean of control over the system.

For easily distinguishable notifications the remote uses 16 ringtones. Each ringtone matches particular event.

Remote has flashing LED indicators for additional information.



TURNING ON/OFF THE REMOTE CONTROL

To turn the remote control on, press and hold F button. «REMOTE ON» ringtone will play. Pressing and holding this button again for 3 seconds will cause the remote to turn off.

MEANING OF THE REMOTE CONTROL LED INDICATORS

Green light indicator:

r 'MBTIFT JG UIFSF JT B DPOOFDUJPO XJUI UIF CB
r (PFT EBSL XIFO UIFSF JT OP DPOOFDUJPO XJUI U

Red light indicator:

r 'MBTIFT GSFRVFOUMZ JG UIFSF JT BOZ OPUJGJDE
r 'MBTIFT PDDBTJPOBMMZ XIFO UIFSF JT OP DPOO

⚠ WARNING! ALL CONTROL COMMANDS ARE TRANSMITTED VIA
RADIO CHANNEL, FOR MAXIMUM EFFECTIVENESS AND RANG
RECOMMENDED NOT TO SHIELD AERIAL AREA SEE PICTURE WIT
WHEN USING A REMOTE CONTROL.

REMOTE CONTROL IS UNIFIED CONTROL DEVICE. REMOTE CONTR
FUNCTIONS DEPEND ON SECURITY SYSTEM MODEL

QUICK ACCESS FUNCTIONS OF THE REMOTE CONTROL

	System is disarmed		System is armed (no alarm events)
	Ignition is switched on	Ignition is switched o	
(short press)		Arming with sound confrmation	Search mode – ashes of turn signals with sound signals for 5 seconds
(1 sec)		Arming without sound confrmation	Search mode – ashes of turn signals without sound signals for 5 seconds
(2 sec)	Switch on ‘Ignition maintenance’ mode		
(3 sec)			Remote engine start
(short press)			Disarming with sound con rmation
(1 sec)			Disarming without sound con rmation
(>2 sec.)	Switch o ‘Ignition maintenance’ mode		Switch o the ignition during remote or automatic engine start procedure.

(short)	Arming when the engine is running with sound con rmation	Arming in 30 seconds with sound notifcation	
(1 sec.)	Arming when the engine is running without sound con rmation	Arming in 30 seconds without sound notifcation	
(short press)	PANIC mode		
(short press)	Switch on LCD lighting (available only on the remote with LCD)		
(3 sec.)	Switch on/o remote (available only on the remote with LCD)		

ICONS OF THE REMOTE CONTROL

The system is armed

The system is disarmed

«Warning level of the shock sensor» security zone

«Alarm level of the shock sensor» security zone

«Motion sensor» security zone

«Tilt sensor» security zone

«Ignition» security zone

«Trunk» security zone

«Clutch», «Brake» security zone

«Neutral» indicator

«Low on-board voltage» security zone

Remote control battery level

Command sending

12:48
Numeric indicator. Displays current time

12.0 V

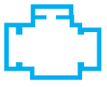
Battery level

0°

Engine temperature

Alarm clock

Engine operation icon


Engine is started

Engine is stopped

srop

REPLACING A BATTERY IN THE REMOTE CONTROL

If high quality batteries are used, service-security system remote can function up to 4 months without needing a replacement. Battery needs to be replaced if the remote control is not turning on or the icon has only one bar left and starts flashing.

To replace the battery:

r NPWF CBUUFSZ DPWFS MPDL JO UIF EJSFDUJPO T
BSSPX

r UBLF UIF CBUUFSZ PVU BOE QMBDF B OFX POF P

r UIF SFNPUF JT SFBEZ GPS VTF TXJUDI JU PO CZ
for 3 seconds).

It is recommended to keep an extra AAA battery.

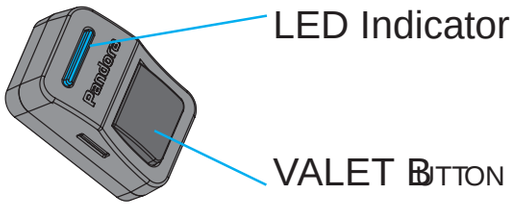
CONTROL OVER THE SYSTEM IN A CASE OF EMERGENCY

WARNING! IT IS HIGHLY RECOMENDED TO CHANGE FACTORY P
OF THE SERVICE PIN CODE FOR IMPROVING SECURITY OF TH

☐-☐-☐-☐

Write down or remember the «Service PIN-code»

In case you cannot disarm the system using the remote control, the service PIN-code can be used (factory preset is 1-1-1-1). You can enter the code only if the base unit is powered, the ignition is switched off. The PIN-code entering is performed using external VALET button and indicated by flashes of the external LED indicator.



After correct input of PIN-code the system will enter programming mode if it was disarmed and the ignition was switched off. Exit programming mode is performed by switching the ignition on. For emergency arming when the engine is stopped, press and hold VALET button for 3 seconds. The system will be armed in 30 seconds. LED indicator lights red during 30 seconds countdown period.

Entering the «Service PIN-code»:

r &OUFS UIF GJSTU EVALET button. Press the button a number of times, equal to the first digit. Pauses between presses should not exceed 1 second. Each pressing will be confirmed with orange LED indicator flash. Pause for more than 1 second and red LED indicator flash confirm the input of the first digit. Then you can enter the next digit.

r &OUFS UIF TFDPOE EVALET button. Press the button a number of times, equal to the second digit. Pauses between presses should not exceed 1 second. Each pressing will be confirmed with orange LED indicator flash. Pause for more than 1 second and red LED indicator flash confirm the input of the second digit. Then you can enter the next digit.

r &OUFS UIF UIJSE EVALET button. Press the button a number of times, equal to the third digit. Pauses between presses should not exceed 1 second. Each pressing will be confirmed with orange LED indicator flash. Pause for more than 1 second and red LED indicator flash confirm the input of the third digit. Then you can enter the next digit.

r &OUFS UIF GPVSUI EVALET button. Press the button a number of times, equal to the fourth digit. Pauses between presses should not exceed 1 second. Each pressing will be confirmed with orange LED indicator flash. After correct enter of the fourth digit the system will be disarmed. The correct input will be

confirmed with the series of green and red flashes of the LED indicator. If the input was incorrect, it will be indicated with a long red flash of the LED indicator and the system will stay in previous state. New input can be attempted after 5 seconds.

ARMING PROCEDURE

Arming the system allows monitoring of all security zones, locks the doors and blocks the engine. To arm the system when the engine is stopped, shortly press button on the remote control. The siren will emit one sound signal and turn signals will flash once. The remote control will play «ARMING» ringtone and security mode status icon (the lock) will change to .
For arming without sound confirmation press and hold button for more than 1 second.
If when arming one of the security zones were triggered, the siren will sound 4 short signals instead of 1, turn signals will flash 4 times, remote will play «WARNING» ringtone (after «ARMING» ringtone) and will show troubled zone. This zone sensor will be disabled at that moment. The sensor will be armed again in 15 seconds after the zone was set right.

DISARMING PROCEDURE

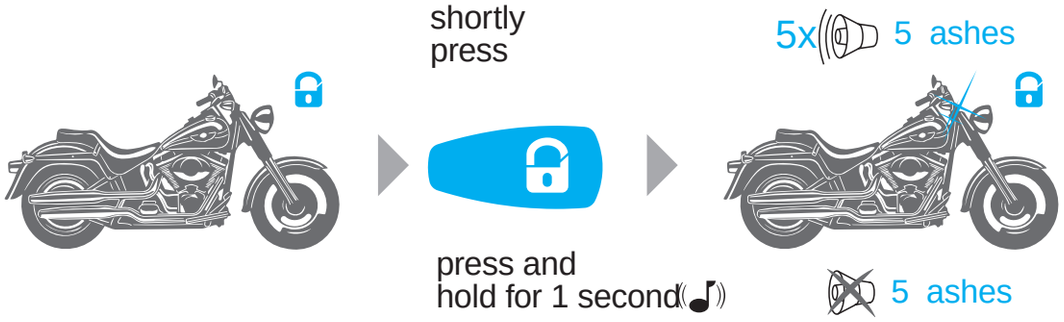
To disarm the system, shortly press button on the remote. You will hear 2 short siren sounds and will see 2 flashes of turn signals. The remote will play «DISARMING» ringtone and security mode status icon will change to .

For disarming without sound confirmation press button for more than 1 second.

If there were new alarming events during the time system was armed, siren will sound 4 times, and turn signals will flash 4 times, the remote will sound «WARNING» ringtone (after «DISARMING» ringtone) and will indicate zones triggered. All recent alarm events can be viewed in the event history.

VEHICLE SEARCH FUNCTION

To easily find your vehicle on a massive parking, shortly press button when the vehicle is armed. The system will sound the siren and flash turn signals 5 times in a row.



To search for car without sound confirmation, press and hold button for more than 1 second.

PANIC MODE

If your vehicle or you are in danger and you want to draw attention to your motorcylce, you can use PANIC mode. In this mode the siren will sound and turn signals will flash continuously for 30 seconds. To trigger PANIC mode, press and buttons simultaneously. To switch it off, press either or .