

ELSER[®]

MotoAlarmSystem

800V1 / 800V4

Installation & user manual

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2.1 INTRODUCTION

Thank you for choosing our two-way motorcycle alarm system.

Please, read it carefully!

ELSER models, 800V1 and 800V4 are innovative motorcycle security systems, with a new compact design of the alarm unit, with waterproof design, built-in 122dB multi-tone siren with small dimensions for easy and invisible installation in the limited space of the motorcycle.

ELSER 800V4 is designed, with the most advanced LoRa™ technology, using radio frequency bands, the wide spectrum configuration technical achieves long distances to receive immediate security notifications with clear icons and sounds directly on the LCD screen of your remote control.

ELSER models 800V1 and 800V4 are innovative security systems with the highest quality standards for motorcycle, ATV, scooters and other motorcycle type machines with 12Volt battery.

2.2 INNOVATIVE SECURITY KEELOQ CODE HOPPING

Innovative security system with Code Hopping Encoder, using KEELOQ encryption, is protected against intruders by generating a new security code every time. This is a method by which the code transmitted from the transmitter to the receiver is different every time a button is pushed from the remote control.

This method, coupled with a transmission length of 66 bits, virtually eliminates the use of code 'grabbing' or code 'scanning'.

2.3 ELSER models 800V1 and 800V4 are innovative security systems and include a wide variety of features.

2.4 Alarm Notifications!!

Should your motorcycle alarm go off, you'll receive instant safety alerts with crisp icons and sounds right on your remote's LCD screen.

2.5 Impact detection – The dual-stage shock sensor included in ELSER security systems detect impact and alert you when someone or something hits your motorcycle.

2.6 Tilt sensor – detect tilt in your motorcycle your alarm siren will sound, should the sensor detect tilt due to towing, theft, or impact.

2.7 Security with perimeter protection - when the sensor detects a violation of the space, the first 2 zones are activated, if the violation of the space continues, the 3rd level of the sensor is activated. The alarm siren will sound and notify you on the LCD remote control (optional).

2.8 Protect the motorcycle from battery voltage disconnection.

System is armed.

By disconnecting the battery cables from the motorcycle, the alarm system with the built-in battery automatically activates the siren sound.

The LCD remote control will automatically respond with continuous beeps and the word POWER LOSS will appear on the LCD screen, to indicate that the motorcycle has been attacked by an unauthorized person by cutting the battery or alarm module wires.

2.9 Starter-kill – Eliminate motorcycle theft by preventing thieves from starting your engine while your ELSER security system is armed.

2.10 Battery Safety - Check the motorcycle battery when the LCD shows "the letter LOW BAT 11:8V" means that the battery needs charging.

2.11 GPS Tracking – Pair your alarm system with ELSER TRACK to get GPS Tracking on your smartphone for extra added security and comfort.

2.12 Secure Your Motorcycle with 2-Way Alarm Alerts
The ELSER 800V4 features an interactive LCD screen that keeps you up to date on your vehicle's status all in one great value.

2.13 BUILT-IN BACKUP BATTERY

It provides the system with the ability to transmit information and activate the siren when the power is interrupted.

CAUTION: The backup battery is disabled, to keep it charged (factory default) and activated during installation by the technician.

2.14 PACKAGE CONTENTS

Greek and English installation manuals
System main unit with integrated shock and tilt sensor and siren
2-way remote with LCD
LCD remote control battery;
Additional 1-way remote control
10-pin connector main cable with accessory plugs
Warranty card

2.15 AUTOMATIC BATTERY POWER SAVING CONFIGURATION

Built-in automatic configuration (Power Save/Sleep Mode) keeps the motorcycle battery longer charged.

When the motorcycle switch is in the OFF position with the system armed or disarmed after half an hour, it will automatically enter power saving mode, all tamper functions remain active.

2.16 System control with remotes

Remote controls

The system is equipped with 2 remote controls:

4-buttons 2-way LCD remote

4-buttons 1-way remote



2.17 Technical Specifications of models

ELSER 800V1 with FSK technology.

Receive distance of transmitter: up to 800 meters in open area.

ELSER 800V4 with LoRa technology.

Receive distance of transmitter: up to 3000 meters in open area.

2.18 ICONS REMOTE LCD WITH FUNCTION



ARMED MODE



DISARM



Remote Transmission You are transmitting the signal to control unit



In – Range Indication You are within the remote control range



Activate on the Tilt sensor



Activate on the Perimeter sensor



Activate on the ING



Shock sensor 1st level activated



Shock sensor 2nd level activated

LOW BAT 11.8V

Means that the battery needs charging.

POWER LOSS

System protection from the power disconnection



Siren with silent arming



Siren with sound



Replace the lcd remote control battery



2.19 ALARM SIGNALS



If any of security sensors is triggered in the guard mode, this will automatically activate alarm signals: siren sounds and light flashes.

The remote will give alert beep sounds and the display will indicate the alarm activation reason. While siren sounds the remote display will indicate flashing icon corresponding to the triggered zone.

Icon on display

Alarm cycle duration



1 level of shock sensor

3sound signals light signals right left



2 level of shock sensor

20 sec sound and light signals right left



Tilt sensor

30 sec sound and 30sec light signals right left



Perimeter sensor

3rd stage 30 sec sound and 30sec light signals right left



Ignition

30 sec sound and 30sec light signals right left

POWER LOSS

Power battery loss

30 sec sound and 30sec light signals right left



The LCD transmitter will keep the triggers icon flashing until the button 2 is pressed.

2.20 SENSORS SETTINGS

You can adjust the shock and tilt sensors using the LCD remote control.

2.21 SHOCK SENSOR SETTINGS



The adjustment of the shock sensor is performed in disarmed mode in the following order:

1

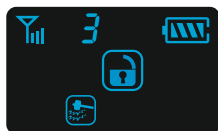
Turn IGNITION to ON position.

2

Press and hold button 4 on the LCD remote for 5sec.



The siren will respond with 3 sounds on the LCD screen, the shock icon will appear and the number 3 at the top of the screen.
(Factory setting level number 3)



There are five levels. One siren beep means the first level (the lowest sensitivity) five siren beeps, means the fifth level (the highest sensitivity).

3

Press remote button 1



To increase >the sensitivity level by (1) one step each time, the LCD transmitter will respond with sounds and the corresponding number will appear at the bottom of the screen (max level is 5)

4

Press remote button 2



To decrease the sensitivity level by (1) one step each time, the LCD transmitter will respond with sounds and the corresponding number will appear at the bottom of the screen (min level is 1)



After setting the sensitivity of shock sensor, continue setting the Tilt sensor.

5

Press and release the button 4 on the LCD remote.



The siren will respond with 5 sounds on the LCD screen, the tilt icon and number 5 will appear at the top of the screen (factory setting level number 5).



There are five levels. One siren beep means the first level the lowest sensitivity (tilt 45 degrees), five siren beeps means the fifth level – the highest sensitivity (tilt 10 degrees).

6

Press remote button 1



To increase >the sensitivity level by (1) one step each time, the LCD transmitter will respond with sounds and the corresponding number will appear at the bottom of the screen (max level is 5).

7

Press remote button 2



To decrease <the sensitivity level by (1) one step each time, the LCD transmitter will respond with sounds and the corresponding number will appear at the bottom of the screen (min level is 1).



After setting the sensitivity, save the setting.

8

Turn switch IGNITION to the OFF position.

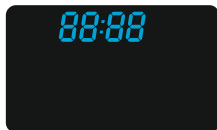
The system will emit a long siren tone to confirm save and exit.

2.22 TIME CLOCK SETTING

- 1 Press and hold remote button 1 and button 2 for 1 sec together.



LCD transmitter will respond with a “Bi” sound and the hour and minute icon will appear on the LCD screen confirming that you are in the time clock setting, the hour digit will flash.



The hour digit it will flash quickly within 10 sec

- 2 Press remote button 2



Press and release and press again as many times as necessary, to increase or decrease the hour digits. Setting is cyclic (1 to 23).

- 3 Press remote button 1



Choose from hour to minutes, → with the corresponding digit flashing.

- 4 Press remote button 2



Press and release and press again as many times as necessary to increase or decrease the minute digits. Setting is cyclic (1 to 60).



Save the set state, and exit from setting menu

- 5 Press and hold remote button 1 and button 2 for 1 sec together.



Save the set state, and exit from setting menu.

 **LCD transmitter will respond with 1 sound and will get back to standby and time display.**

2.23 **Security disarming without remote control (factory default)**

 **Use this feature in any case the remotes are lost or aren't correctly functioning.**

1 Turn the switch ignition to the ON position.
The siren will be activated.

Within 15sec, turn ignition switch ON/OFF (5) five times and stay in the ON position.

2 The siren will stop sounding from previous triggered state and will start emitting soft siren tones.

The siren will stop sounding from activation mode (ignition ON) and will start making soft siren sounds.

3 At the 5th fifth soft siren sound
turn the switch ignition OFF.

If the procedure is followed correctly, the system will be disarmed with (2) two siren chirps.

2.24 **Security disarmament with Personal PIN code**

 **·Password setup and changing
While the system is in a state of disarmed.**

2.25 Remotes registering to the system Memory

Encoding remote transmitters in system memory



Remote registering is performed in disarmed mode in the following order:

Unplug the power fuse from the system and plug again, the system will emit (2) two siren chirps and direction lights flasher.

1

Turn switch IGNITION ON/OFF (3) times and stay in ON position.

The system will emit (2) two siren chirps and parking light will flash once.

2

Within 6sec press and hold down the button 1.



The system will emit (2) two siren chirps.



Repeat step 2 to register the second remote control the system will emit additional (2) two siren chirps.



To exit the remote control coding menu

3

Turn OFF IGNITION.

1 siren sound and 1light flashes will follow



Warning! Total 2 remotes can be registered to the system memory. While new remotes registration it is necessary reregister old ones, otherwise they will be deleted.

2.26 Programming menu-output GPS (positive factory setting)

Turn IGNITION to ON-OFF-ON position. Press and release No 4 button on the LCD remote, will respond with three chirps, you are in the programming menu:

Output positive: Press No1 button. The LCD transmitter will respond with chirp once.

Output negative: Press No2 button. The LCD transmitter will respond with chirp twice.

After your choice, turn IGNITION to OFF position. The LCD transmitter will respond three "Bi Bi Bi" to save it.

2.27 LCD Transmitter (alarm notifications)

Factory default notification by sound (duration of 30sec)

You can adjust the notifications with sound or sound and vibration



System armed or disarmed

Long press LCD remote button 3.



The LCD will respond with two BIBI sound and vibration twice, selection with sound and vibration.



Long press again LCD remote button 3. The LCD will respond with two BIBI sound and vibration twice, selection with sound and vibration.



Important: to extend the battery life of the LCD remote, use sound and vibration in case of emergency.

2.28 The system security and anti-theft functions

2.29 System Arming with Tilt and shock sensor active



Before security arming make sure that:
Ignition switch is off.
ELSER 800V1 and 800V4 have an arming delay of 10sec.

Press remote button 1



The siren will chirp once and parking light will flash once.
The LCD transmitter will respond with 1 sound and the icon will appear on the LCD screen confirming that the system is armed w/tilt and shock sensor.



2.30 System arming tilt sensor active w/shock sensor bypass

Press the remote button 1.
The siren will chirp once, the parking lights will flash once and within 3 sec. Re-press the same button 1.



The system will emit (2) twice additional siren sounds and the Parking lights will flash (1) one more time. The LCD transmitter will respond with 1 sound and the icon will appear on the LCD screen confirming that the system is armed with Tilt sensor.



This function is useful when traveling by ferry boat the system does not activate the siren from vibrations. The siren is activated by tilt switch and by opening the ignition switch.

This ELSER 800V4 security system allows the user to program a personal password that offers a high level of security for the motorcycle

1

Turn switch ignition ON/OFF (5) times and remain at the OFF position.

2

Within 15sec press and hold down the button 4.



The system will emit (5) five soft siren sounds indicating the factory default setting when entering the PIN CODE setting menu. On the LCD the number 5 will appear at the top of the screen. This setting is based on siren sounds and you can select from (1) one to (9) nine sounds (factory setting PIN CODE 5 sounds).



3

Press remote button 1



To increase the number of sounds max, 9 sounds

4

Press remote button 2



To reduce the number of sounds min, 1 sound

5

After choosing your own personal PIN CODE turn the ignition switch to the ON/OFF position, the system will emit a long siren tone to confirm save and exit.

2.31 System arming with tilt, shock and perimeter sensor

Press the remote button 1.
The siren will chirp once and
parking lights will flash once within
3sec press button 3.



The system will emit (2) twice additional siren sounds
and the parking lights will flash (1) one more time.
The LCD transmitter will respond with 1 sound and
the icon will appear on the LCD screen confirming
that the system is armed w/tilt, shock and perimeter
protection sensors (Perimeter sensor optional).



2.32 Silent Arming / Disarming

Press remote button 3.



The system will respond by flashing the
Parking lights (1 time).
LCD transmitter will respond with "Bi-Bi" 1 sound
and the icon will appear on the LCD screen
confirming that the system is silently armed.



Disarming Press button 2: of remote and
system will respond by flashing the
Parking lights (2 times).



2.33 Motorcycle search in a parking lot and panic mode



System is armed

Quick press remote button 4.



Panic mode

The siren will activated and the turn signals will flash for 30 seconds.



Long press the No 4: button on the LCD remote for 3secs, the siren does not sound, only the parking light flashing to inform the owner of the location of the motorcycle.

Press any button on the LCD transmitter to stop the signal of the central unit.

2.34 System Disarm

Press remote button 2.



The siren will chirp twice and parking lights will flash twice.

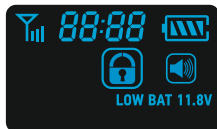
The LCD transmitter will respond with 2 sounds and the icon will appear on the LCD screen confirming that the system is disarmed.





2.35 Motorcycle state and battery voltage control

During disarmament of the system will emit 2 sounds 1 additional siren sound means that the battery voltage of the motorcycle is 11.8V or lower. The LCD transmitter will respond and will appear on LCD screen the letter **LOW BAT 11,8V** the letter will remain on the screen for 5sec.



Check the motorcycle battery!

2.36 System Disarm (after 5days)

After the receiver enters the sleep mode, the LCD transmitter cannot control the central unit within 15 seconds turn the ignition switch to the position ON-OFF.

Press remote button 2.



The siren will chirp twice and parking lights will flash twice. The LCD transmitter will respond with 2 sounds and the icon will appear on the LCD screen confirming that the system is disarmed.

Note: Disarm delay 15sec.



2.37 Protect the motorcycle from battery voltage disconnection.



System is armed



By disconnecting the battery cables from the motorcycle, the alarm system with the built-in battery automatically activates the siren sound.

The LCD remote control will automatically respond with continuous beeps and the word **POWER LOSS** will appear on the LCD screen, to indicate that the motorcycle has been attacked by an unauthorized person by cutting the battery or alarm module wires.



CAUTION: Check the condition of the motorcycle.

2.38 How to activate the built-in battery

Ignition switch ON. Press and hold remote button 1 and button 3 for 1sec together.



The parking light flash twice and the system siren sounds twice, confirming that the system has activated the backup battery.



Step 2: repeat the same process, the parking light flash once and the system siren sounds once confirming that the system has disabled the backup battery.



Attention:

1. The siren sounds twice and parking lights flash twice (built-in battery is activated).
2. The siren sounds once and parking lights flash once (built-in battery is deactivated).



2.39 Important: user information About the built-in battery

In case where the motorcycle will be parked for several months without moving, to maintain the built-in battery charged and in good condition.
Turn off the backup battery.

2.40 Installation and connection of the system

General installation requirements

Find the ideal point by placing the unit and organizing the wiring on the particular motorcycle, a procedure must be followed for the system to function properly.

Check the spaces and construction of the motorcycle, to decide what is the best available space for mounting the unit and accessories.

Before installation, make sure all the motorcycle equipment and circuits, to which the systems to be connected, are in good condition and no any original equipment errors are indicated.

Mount all the wires on the distance from electric interference sources: ignition coils, high voltage spark cables and so on. Make sure the system wires are not in touch with the motorcycle movable parts, such as pedals, steering gear and so on.

Due to the same colors of the cables, do not cut the system cables as this may cause damage.



Cables cut from the system connectors, will VOID the warranty.



After installing the system, activate the built-in backup battery of the system.

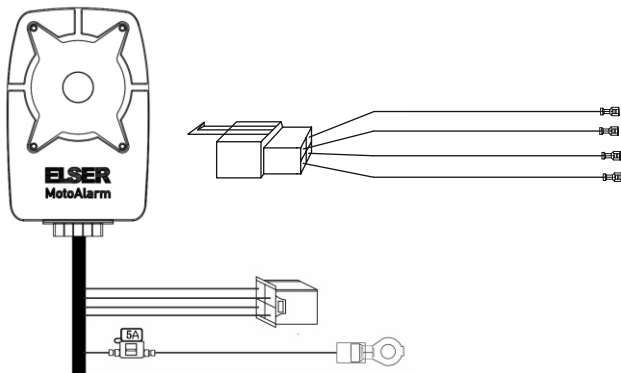
2.41 Main unit wiring information

Black connector 10PIN

it is divided into black 4PIN connector and constitutes the central wiring of the alarm unit



Installation is designed to be easy and quick.



Black connector 4PIN

Black wire: (-) ground or to the negative pole of the battery.

Gray wire: +12V output with fuse on the right turn signal.

Gray wire: +12V output with fuse on the right turn signal.

Orange wire: +12V input to the ignition switch.

Black cable: with fuse and terminal, connection to +12 Volt battery pole.



IMPORTANT:

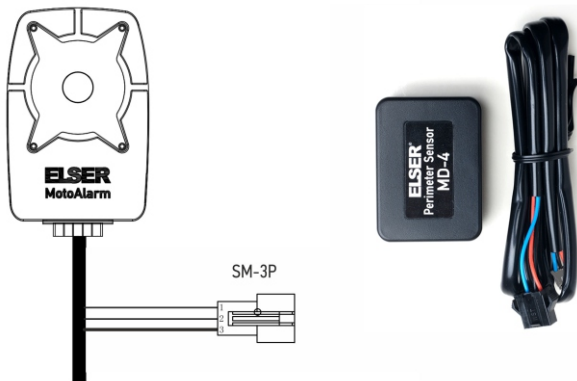
When the central unit is supplied with (+) and (-) 12V voltage, the system will emit two siren sounds.

Upgrade your security system for even more security

2.42 Optional Accessories

MD-4 Perimeter sensor

MD-4 Perimeter sensor Safety with perimeter protection – Detects movement around the motorcycle designed with 3 warning levels.



Installation MD-Perimeter sensor

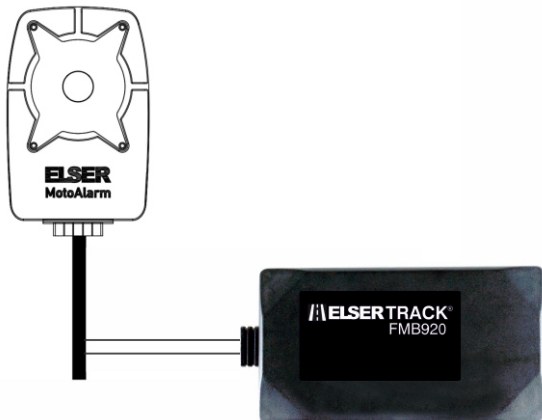
Connect the black cable of the MD-4 device to the accessory wiring directly to the black 4PIN with a three-wire plug that the main unit wiring has.

It is recommended to place the sensor under the seat as close to the center of the motorcycle as possible to protect it from water.

NOTE: The unit is not protected from water, it is recommended to protect it with a bag after setup.

2.43 GPS tracking

Pair your alarm system with ELSER TRAC to get GPS Tracking on your smartphone for added security and convenience!

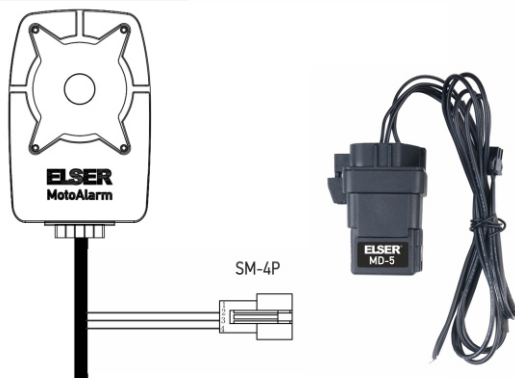


Installation of GPS ELSER TRACK Device

Connect the black cable of Elser Track device to the accessory wiring directly to the black 3PIN with a three-wire plug that the main unit wiring has.



2.44 Starter kills



Starter– kills MD-5 Eliminate motorcycle theft by preventing thieves from starting the motorcycle engine while the ELSER security system is armed.

Installation

Connect the black cable of the MD-5 device to the accessory wiring directly to the black 2PIN with a two-wire plug that the main unit wiring has.