



SYSTEM DESCRIPTION

KEETEC TS 50 is a car alarm designed for vehicles with 12 V supply voltage and is used to monitor the doors, trunk, hood. In case of their disruption, system is reporting alarm by optical (indicator lights) and audible (siren) signaling. The system includes a built-in ultrasonic sensor with adjustable sensitivity, that in case of violation of vehicle interior reacts with alarm. When car alarm is activated, the system automatically blocks the starter circuit to prevent the unauthorized vehicle start up. Car alarm is operated via a remote control, which controls also central locking system of the vehicle and allows you to program up to 10 pieces of remote controls or is controlled by original remote control from vehicle.

DESCRIPTION OF BUTTONS OF ALARM REMOTE CONTROLS

BUTTON	FUNCTION	CONDITIONS
	a: system activation and central locking lock	deactivated system
2x until 3sec.	b: soundible vehicle searching c: alarm termination d: central locking lock	activated system alarm triggered ignition turned ON
3x until 3sec.	omission of ultrasonic sensor	ignition turned OFF, deactivated system
	a: system deactivation b: central locking unlock c: alarm termination	activated system ignition turned ON alarm triggered
for 1sec.	trunk open	ignition turned OFF
for 1sec.	trunk open	ignition turned OFF (only RC KEY)
+	emergency PANIC alarm	always
+ for 1sec.	a: anti car-jack mode b: termination of anti car-jack mode	ignition turned ON activated anti car-jack mode
+ for 1sec.	a: anti car-jack mode b: termination of anti car-jack mode	ignition turned ON activated anti car-jack mode (only RC KEY)
+ for 2sec.	a: turn ON „LOCK CHECK“ function b: turn OFF „LOCK CHECK“ function	„LOCK CHECK“ is turned OFF „LOCK CHECK“ is turned ON
	activation of „LOCK CHECK“ function (control of last pressed button on RC)	always (only RC MAX)
for more than 1 sec.	turn on LED diode on the front part of remote control	always (RC MAX, RC METAL)
for more than 1 sec.	turn on LED diode on the front part of remote control	always (RC LINE)
+	set up time of LED shining when button press	always (only RC MAX)
	vehicle searching	always (only RC MOTO)
for 1sec.	emergency PANIC alarm	always (only RC MOTO)

Note: Function Lock Check contains only remote controls RC MAX!

I. SYSTEM CONTROL BY CAR ALARM REMOTE CONTROLS

ALARM ACTIVATION

- press button . Siren beeps 1x or not. (see program menu F1)
- directional lights flash 1x, central locking locks and immobilizer is activated.
- after 8 or 40 sec. (see program menu F3) is system active. LED diode flashes slowly. All sensors are active. If any sensor is triggered within 8 or 40 seconds, system automatically omitted this sensor, until it will be calm again.
- if doors or hood are not closed within 8 or 40 seconds, siren beeps 4x. If trunk is not closed within 8 or 40 seconds, LED diode flashes fast and siren bees 2x.

ALARM DEACTIVATION

- press button .
- siren beeps 2x or not (see program menu F1). If siren beeps 4x after alarm deactivation, alarm was triggered during guarding.
- directional lights flashes 2x. If directional lights flashes 4x, alarm was triggered during guarding.
- central locking system unlocks and immobilizer is deactivated.
- If there was alarm triggered during guarding, LED diode indicates which input or sensor was triggered by number of flashes.

LED DIODE SIGNALIZATION IF ALARM WAS TRIGGERED

- | | |
|--------------------------------------|---------------------------------------|
| 1 flash - additional sensor | 4 flashes - engine compartment |
| 2 flashes - ultrasonic sensor | 5 flashes - trunk |
| 3 flashes - door contacts | 6 flashes - ignition turned ON |

EMERGENCY PANIC ALARM

- Always, when you press buttons and at the same time, siren will sound and directional lights will flash for 30 seconds.
- Deactivate panic alarm by pressing button or .
- Note:** on remote control RC MOTO activate PANIK alarm by same way or press button for 1 second.

VEHICLE SEARCHING

- Car alarm must be activated.
- Press button . Siren sounds 1x and directional lights flash 10x.
- Press button to ends vehicle searching and to turn off car alarm.
- Note:** on remote control RC MOTO activate vehicle searching by same way or by short press of button.

ANTI CAR-JACK MODE (Function F11 is turned ON)

- if ignition is turned ON and all doors are closed, press buttons and simultaneously (press and on RC KEY) for 1 second and open door within 8 seconds. Anti car-jack mode is now activated. if you do not open any door within 8 seconds, anti car-jack mode is not activated.
- 30 sec. counting is started after closing last door. LED diode starts flashing fast.
- after 30 seconds siren beeps every 2 seconds. After 20 seconds siren sounds permanent and directional lights flashing until ignition is turned OFF. Immobilizaiton circuit is interrupted.
- anti car-jach mode can be deactivated by pressing buttons and simultaneously (press and on RC KEY) for 1 second or by using emergency deactivation.
- ADDITIONAL TWO-ZONE SENSOR**
- siren sounds 1x and directional lights flashes 1x when first zone is triggered.
- alarm is activated when second zone is triggered. Siren sounds for 30 seconds and directional lights flashes for 30 seconds. Maximum number of alarms caused by additional sensor while guarding the is 8x.

TRUNK OPEN

- press button (on RC KEY press button) for 1 sec.. Output for trunk open (- 300 mA) will be activated for 0,5 sec.
- if trunk is open, system automatically omitted from guarding ultrasonic sensor, additional sensor and trunk input. 4 seconds after trunk closing system guards these inputs again.

FUNCTION “LOCK CHECK” (RC MAX)

This function allows you to check which button was pushed last time. Buttons for locking and unlocking can be checked and therefore user can check, whether he locked the car or not. LOCK CHECK function is optional and turned off from factory.

You can activate the function by holding buttons and for 2 seconds. Icons for locking and unlocking will flash once and funtion is activated. For deactivation, use same process and they flash 2 times. If the function is activated, you can check the last pushed button by short pushing of button . After that, the icon of locking or unlocking will light for aprox. 0,8 sec, depending on which button was pushed last time.

Warning: When the LOCK CHECK function is activated, battery life will be shorter.

LOW BATTERY INDICATOR ON THE REMOTE RC MAX

If the battery indicator will flash in blue colour when locking or unlocking vehicle, the battery in remote control is weak and you have to replace it with new one.

TORCH FUNCTION ON RC MAX, RC METAL, RC LINE

By pressing button on remote controls RC MAX and RC METAL or button on remote control RC LINE for more than 1 second, high power LED in front of the remote will light up. If you keep pressing the button, LED is turned ON, and after pre-set time turns OFF, LED svieti, pokiaľ držíte stlačené tlačidlo a po uplynutí nastavenej doby vypne, even still holding the button pressed (only RC MAX). Time of LED turned ON can be set (only RC MAX).

LED LIGHTS DURATION SETTING (RC MAX)

Duration of LED light can be adjusted from 1 to 30 sec or without limit. Push buttons and for 1 second. Red LED will flash for 3 sec. After those 3 sec, the LED will start to flash in 1 sec intervals. Press the button for as long as you wish the light to be switched on (max. 30 sec). If you don’t press any button, light duration will be unlimited. Duration programming will automatically end after 30 sec.

LOCK CENTRAL LOCKING SYSTEM WHEN IGNITION IS TURNED ON

- when ignition is turned ON, press button and central locking system will lock
- by pressing button, central locking will be unlocked
- AUTOMATIC LOCK CENTRAL LOCKING AFTER IGNITION TURNED ON**
- If this function is allowed, system automatically locks central locking system after 20 seconds. After ignition turns OFF, central locking system will be unlocked. With CAN BUS connection, this feature is additionally conditioned to speeding over 5 km/h.

AUTOMATIC REACTIVATION

- if you don` t turn ignition ON or don` t open the door after deactivation of car alarm, system activates itself after 30 seconds automatically. if function F16 is active, central locking will lock after ractivation.
- AUTOMATIC ACTIVATION AFTER CLOSING LAST DOOR**
- car alarm will be activated automatically after 30 seconds after turning the ignition OFF and closing the last door. If function F16 is active, after activation system locks central locking system
- if you open door within 30 seconds after closing last door, car alarm will be activated after 30 seconds after closing them

ALARM MEMORY

- car alarm even after disconnecting the power supply maintains the state in which it was before disconnecting

IMMOBILIZER

After car alarm is turned ON, immobilization circuit and output is active until alarm is turned OFF again.

AUTOMATIC ACTIVATION OF IMMOBILIZATION CIRCUIT

- if function (F12) is turned ON, immobilization circuit will be automatically activated after 5 minutes from ignition turned OFF. Deactivate immobilization circuit by pressing unlock button or same way as at emergency deactivation.
- AUTOMATIC ACTIVATION AFTER TRIGGERED ALARM**
- when the alarm is triggered, siren will sound for 30 seconds. After that, system stays armed. If the input that triggered the alarm is still disturbed after 30 seconds, the system automatically ignore it until input become calm.

SIREN AND DIRECTIONAL LIGHTS WHEN ALARM IS TRIGGERED

When alarm is armed and is triggered by some of the inputs, siren sounds and directional lights flashes for 30 seconds. Alarm triggered by door contacs, hood contact, trunk contact and shock sensor can be repeated 8 times. After disarming and arming the system, alarm from these inputs can be repeated 8 times again. Alarm triggered by turning ignition ON can be triggered infinitely times. Siren still sounds until ignition is turned ON.

II. PROGRAMMING REMOTE CONTROLS

1. Turn ignition ON and press service button 5 times within 8 seconds. Turn ignition OFF. If security mode is not active, siren beeps 5 times, system is now set to programming mode and LED starts flash. If security mode is active (function F19), enter it by 4digits PIN code. LED starts flash slowly.
- if the LED will flash so many times which is the value of first PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of second PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of third PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of fourth PIN number, push the service button one time.
- If you entered correct PIN code, siren beeps 5 times and now you enter to the programming mode. LED starts flash fast.
2. Press any of button on remote control within 5 seconds. If you dont press any of button within 5 seconds or ignition will be turned ON, system automatically ends programming.
3. Siren confirms programming by short beep. Depending on which controller was programmed, so many times siren beeps. Successful programming of first remote control siren confirms by one beep, second remote control siren confirms by two beeps, etc...
4. If you want to program new remote control, you must also re-program all remotes, which are already programed in system.
5. System allows you to pogram up to 10 remote controls. When programming new remotes system automatically erase already programmed remotes.
- Note:** The device TS 100 has remote control working in the zone of 433.92 MHz. Please ask you dealer for declaration of confornty.

III. SYSTEM CONTROL BY ORIGINAL VEHICLE REMOTE CONTROL

ALARM ACTIVATION

- Press the lock button on original vehicle remote control.
- Siren sounds once, or not (according to system setings).
- Directional lights flash 1x or so many times as when you locking the car with original remote control from vehicle.
- Central locking system will lock, alarm will activate itself and immobilization circuit will be activated after ignition turned ON.
- After 8 or 40 sec. (according to settings) is system active. LED diode flashes slowly. All sensors are active. If any sensor is triggered within 8 or 40 seconds, siren beeps 2x and system automatically skip this sensor, until it be not triggered again.
- If any door or hood is open within 8 or 40 sec., siren beeps 4 times. If trunk is open, siren beeps 2 times.

ALARM DEACTIVATION

- Press the unlock button on the original vehicle remote control
- Siren beeps twice, or not (according to system settings). If siren beeps 4 times after alarm deactivation, alarm was triggered during guarding.
- Directional lights flashes 2x or so many times as when you unlocking the car with original remote control from vehicle. If directional lights flashes 4 times after alarm deactivation, alarm was triggered during guarding.
- Central locking system unlock the vehicle, alarm will deactivate itself and immobilization circuit is linked.
- LED diode is turned OFF. If there was alarm triggered during guarding, LED diode indicates which input was triggered by number of flashes.
- 1** flash - additional sensor
- 2** flashes - ultrasonic sensor
- 3** flashes - door contacts
- 4** flashes - engine compartment
- 5** flashes - trunk
- 6** flashes - ignition turned ON

EMERGENCY PANIC ALARM

If you press lock button on original remote control for 3 times within 5 seconds, PAN-IC alarm will be activated. Siren sounds and directional lights flasing for 30 seconds. Alarm can be deactivated by pressing any button on remote control.

IV. SERVICE MODE

1. turn ignition ON and press vallet button 2 times within 8 seconds.
2. turn ignition OFF. If security mode is not activated, siren beeps 2x and LED diode is turned ON permanently. Service mode is activated. If security mode (F19) is activated, LED diode starts flashing slowly.
- if the LED will flash so many times which is the value of first PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of second PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of third PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of fourth PIN number, push the service button one time.
- If you entered correct PIN code, siren beeps 2x and LED diode shine permanently. Service mode is activated.
- Deactivation of service mode**
- Turn ignition ON and press the service button 2x within 8 seconds. Turn ignition OFF. Siren sounds 2x and LED turns OFF. Service mode is deactivated.

V. PIN CODE CHANGE

1. Turn ignition ON and press service button 10 times within 10 seconds.
2. Turn ignition OFF. If security mode is deactivated, now you are in programing PIN code menu. If security mode is active (function F19), enter it by entering 4digits PIN code. LED diode starts flashes slowly.
- if the LED will flash so many times which is the value of first PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of second PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of third PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of fourth PIN number, push the service button one time.
- If you entered correct PIN code, siren beeps once and LED diode turns OFF. Now you are in PIN code programming menu.
3. Press the service button. LED starts flash slowly and you can enter new PIN code.
- if the LED will flash so many times which is the new value of first PIN number, press service button once. First digit of new PIN code is save. LED will start to flash again.
- if the LED will flash so many times which is the new value of second PIN number, press service button once. Second digit of new PIN code is save. LED will start to flash again.
- if the LED will flash so many times which is the new value of third PIN number, press service button once. Third digit of new PIN code is save. LED will start to flash again.
- if the LED will flash so many times which is the new value of fourth PIN number, press service button once. Fourth digit of new PIN code is save. LED will start to flash again.
- 5 seconds after fourth digit is entered, LED diode automatically display new PIN code by the number of flashes. Display first digit of code, 2 sec. pause, display second digit of code, 2 sec. pause etc...
4. Turn ignition ON or system will automatically ends programming of new PIN code after 10 seconds from displaying the new PIN code.
- PIN CODE RESET**
- Disconnect the system from power supply. Disjoint the jumper in control unit and connect the system to the power supply. Within 3 seconds connect the jumper to the control unit. PIN code will be set to factory default number 4321.

VI. EMERGENCY DEACTIVATION

1. Open driver door and turn ignition ON.
2. Press the service button so many times, which is value of first digit of PIN code within 10 seconds and turn ignition OFF. If security mode is disabled, siren beeps twice, directional lights flashes twice and now system is deactivated. If security mode is active (function F19), enter by 4digits PIN code. LED starts flashing slowly.
- if the LED will flash so many times which is the value of first PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of second PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of third PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of fourth PIN number, push the service button one time.
- If you entered correct PIN code, siren beeps twice and directional lights flashes twice. System is now deactivated.