



WARNING: Carefully read following instructions and technical specifications in this manual before installation. The system must be installed and used only according to this manual. The system is designed for vehicles with 12V power supply. It has to be connected to 12V output and to the ground. Neither producer or seller of the system is responsible for damages caused by incorrect installation, using or operating of this product. Unprofessional operation or modification of the system can damage the system alone, or the electric system of the vehicle and leads to warranty loss. For proper working of the system we recommend the installation to be made by authorized service.

SYSTEM DESCRIPTION

KEETEC TS 10 is a car alarm designed for vehicles with 12V power supply. Used to monitor doors, trunk, hood. In their breach reporting system is an optical alarm (directional light) and sound (siren) signalling. With the car alarm system automatically blocks the starter circuit to prevent unauthorized entry when starting the vehicle. The car alarm is operated via remote control system allows to program up to 3 pcs remote controls.

I. SYSTEM INSTALLATION

Remove plastic covers of car dashboard. Find cables for car alarm connection. Use a digital multimeter to test the function of cables in vehicle, even if you're sure which function specific cable does have. After choosing the right cables, disconnect the car battery and connect the cable harness of car alarm to those cables according to the attached wiring schemes. Solder and isolate all connections. After finishing the installation of car alarm, connect the car battery and plug-in a fuse to the fuse cover of the car alarm. Test correct functionality of the car alarm and the electrical installation of the car (ignition, direction lights). Mount the plastic covers back on to the dashboard.

Control unit and LED location

Place the control unit from inside the protective plastic dashboard. Attach the antenna control unit so that it does not touch the metal of the vehicle. Signalling LEDs put on a clearly visible place so that access to the service button.

Attention: Outputs of the control unit have (except output for direction lights) maximal current load of 300 mA. To control bigger current load, please use additional device (R1215, IMO 15). Maximal current load for direction lights is 2 x 5 A.

II. SERVICE MODE

1. Turn the ignition on and push the service button 2 times within 8 seconds.
 2. Turn the ignition off. If the security mode is not active, siren will sound 2 times and LED diode will glow permanently. Valet mode is now active. If security mode is active (function F15), LED will start to flash slowly. Enter the security mode. If you've entered correct PIN code, siren will sound 2 times and LED will glow permanently. Valet mode is now active.
- Deactivate the service mode**
Turn on the ignition and press the service button 2 to 8 seconds. Turn off the ignition. The siren sounds and the LED 2 stops lighting. The service mode is deactivated..

III. PROGRAMMING SYSTEM FUNCTIONS

Follow this when programming functions:

1. Activate the valet mode and turn on the ignition.
2. Push the valet button 7 times within 10 seconds.
3. Turn off the ignition, LED will start to flash.
4. Push the valet button within 20 seconds so many times, that corresponds to the number of the function you want to set up. Siren will sound after each push of the valet button. If the number is greater than 10, hold the valet button for over 3 seconds and then continue pushing the button each time above ten. For example if you want to set up function 13, hold the valet button for over 3 seconds, release the button (siren will sound 2 times) and then push the valet button 3 more times (siren will sound 1 time after each push). After turning the ignition on, siren will sound 1 or 2 times, depending on which setting was set. If you want to set up function No. 25, hold the valet button for over 3 seconds. After releasing, the siren will sound 2 times. Push the valet button again for over 3 seconds. After releasing the siren will again sound for 2 times. Push the valet button 5 times (siren will sound after each push).
5. Turn the ignition on. Siren will sound 1 or 2 times, depending on which setting was set.
6. You can finish programming by turning the ignition on and pushing the valet button one time. System is now in valet mode.

PROGRAMMING TABLE

Prog. menu	Function	Factory setting 1 tone siren	Adjustable 2 tones siren
F1	quiet / loud activation	silent	loud
F2	central locking system locks the ignition	turned off	turned on
F3	delay activation of inputs	8 sec.	40 sec.
F4	reminders of the system	off	on
F5	input polarity door contacts	"-" input	"+" input
F6	double-lock pulse	off	on
F7	double unlock pulse	off	on
F8	polarity of the output sequence	"-" output	"+" output
F9	directional light output	normal	sequential
F10	programmable output	trunk open	immobilizer
F11	unlock time	0,5 sec.	3,5 sec.
F12	lock time	as unlocking	20 sec.
F13	automatically activated when you close the last door	off	on
F14	lock the central locking system for automatic activation	off	on
F15	security regime	off	on
F16	automatic reactivation	on	off
F17	siren output	siren "+"	horn "-"
F18	type sirens	normal	coded
F19	visual indication on / off car alarm	on	off
F20	lock / unlock button when servicing the ignition	on	off
F25	system reset	reset	

IV. FUNCTIONS DESCRIPTION

F1. Silent / loud activation

PRE -SET: to activate / deactivate the siren sounds

ADJUSTABLE: to activate / deactivate the siren is heard

F2. Doors Lock when ignition Turned on

PRE -SET: after ignition, the central locking does not lock

ADJUSTABLE : after the ignition is switched on after 20 seconds locked central locking

F3. Inputs activation delay

PRE -SET: inputs are activated after activation of the system after 5 seconds

ADJUSTABLE : inputs are activated after activation of the system after 30 seconds

F4. System armed reminder

PRE -SET: reminder is turned off

ADJUSTABLE : after closing last door when the ignition is turned off, after 10 sec. siren beeps 2x

F5. Door contacts input polarity

PRE -SET: door contacts input reacts on negative impulse (-)

ADJUSTABLE : door contacts input reacts on positive impulse (+)

F6. Double lock impulse

PRE -SET: double lock impulse is turned off

ADJUSTABLE : double lock impulse is turned on

F7. Double unlock impulse

PRE -SET: double unlock impulse is turned off

ADJUSTABLE : double unlock impulse is turned on

F8. Sequential output of polarity

PRE -SET: sequential output has negative polarity (- 300mA)

ADJUSTABLE : sequential output has positive polarity (+ 300mA)

F9. Output indicator lights

pre-set : Normal - active power output is the directional light

ADJUSTABLE : Sequential - Sequence is an active output indicator lights

Note: If the output is set as sequential, orange wire to connect the turn signals as feedback control.

F10. Programmable output

PRE -SET: controls opening trunk (-300m)

ADJUSTABLE: immobilization output (-300mA)

F11. Unlock time

PRE -SET: unlock impulse is 0,5 sec.

ADJUSTABLE : unlock impulse is 3,5 sec (if's not possible to set up double unlock impulse)

F12. Lock Time

PRE -SET: same as unlock time

ADJUSTABLE : 20 sec

F13. Automatic arming after closing last door

PRE -SET: after turning the ignition off and closing last door system will be automatically armed after 30 sec.

ADJUSTABLE : function is forbidden

F14. Central locking activation after automatic arming

PRE -SET: after turning the ignition off and closing last door system, will be automatically armed after 30 sec and central locking will activate

ADJUSTABLE : function is forbidden

F15. SECURITY MODE

PRE -SET: security mode is deactivated

ADJUSTABLE : security mode is deactivated

F16. AUTOMATIC RE-ACTIVATION

PRE -SET: function is allowed. If no doors are opened after disarming, system will be armed again in 30 seconds.

ADJUSTABLE : function is forbidden

F17. Siren OUTPUT

PRE -SET: siren (+) - output is constant throughout the alarm

ADJUSTABLE : horn (-) - output is interrupted during the entire period of the alarm

F18. Type of sirens

PRE -SET: normal siren

Adjustable: coded siren

F19. Optical alarm on / off car alarm

PRE -SET: When you turn on / off the car alarm is not active optical signal

ADJUSTABLE: on / off the car alarm is an optical signal active

F20. Lock / Unlock the service when the ignition key

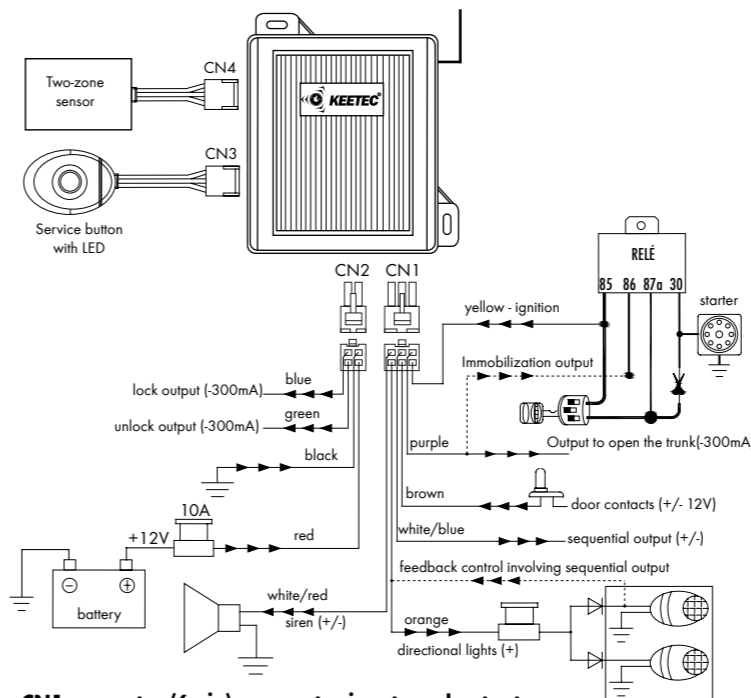
PRE -SET: Function is on. If you press the service button on the ignition, lock / unlock the central locking

ADJUSTABLE: function is off

F25. SYSTEM RESET

System will be reset to factory settings

V. WIRE DIAGRAM



CN1 connector (6-pin) - connector inputs and outputs

Yellow (+) ignition +12V (input wire)

Purple (-300mA) opening the trunk (output cable)

(-300mA) immobilization output block engine (output cable)

Brown (+/-) sensing door contacts (input wire)

White / blue (+/-) Sequential output optical signal (output cable)

Orange (+) power output for directional light (output cable)

- When connecting the output to a sequential turn signals, this input wire and serves as a feedback control directional lights

White / red (+) siren (output cable)

CN2 connector (4-pin) - connector inputs and outputs

Red (+) power +12 V (input wire)

Black (-) body frame (input wire)

Blue (-300mA) lock output (Outlet conductor)

Green (-300mA) unlock output (output cable)

CN3 Connector (3-pin) - connection service button with LED

Connector used to connect the service button with LED. LED place in a well visible place so that good access to the service button.

CN4 Connector (3-pin) - Two-zone connecting additional sensors

Connector used to connect an additional Two-zone sensor (MWS2, LSK 2)

VI. Enter the security system

To enter the secure mode by entering the four-digit PIN code. If the security mode is

activated (feature F15), the programming LED will flash slowly.

When the LED blinks repeatedly, what is the value of the first digit, press the button once the service. LED starts to flash again.

When the LED blinks repeatedly, what is the value of the second digit, press the button once the service. LED starts to flash again.

When the LED blinks repeatedly, what is the value of the third digit, press the button once the service. LED starts to flash again.

When the LED blinks repeatedly, what is the value of the fourth digit, press the button once the service

VII. CHANGE PIN CODE

1. Turn the ignition on.

2. Push the valet button 10 times within 10 seconds.

3. Turn the ignition off. If the security mode is turned off, siren will sound 1 time and will be in PIN programming mode. If the valet mode is active (function F16), LED will start to flash slowly. Enter the security mode. If you entered the correct PIN code, siren will sound one time and LED will stop glowing. You are now in PIN programming mode.

4. Push the valet button. LED will start to flash slowly and you can enter new PIN code.

- when the LED flashes so many times, which is the new value of first PIN code number, push the valet button one time. First code number is saved and LED will start to flash again.

- repeat this step for the second, third and fourth PIN code number.

- 5 seconds after entering the fourth code number LED diode will show the new PIN code with the number of flashes with 2 seconds pause between every code number.

5. Turn the ignition on or wait for 10 seconds after showing the new PIN code and system will automatically end the PIN code programming mode.

RESET PIN CODE

Disconnect the system from power supply. Disjoin 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.

VIII. REMOTE CONTROL LEARNING

1. Turn the ignition on and push the valet button 5 times within 8 seconds. Turn the ignition off. If security mode is inactive, siren will sound 5 times and the system will switch to programming mode. LED will start to flash rapidly. If security mode is active, LED will flash slowly. Enter the security mode. If you entered the correct PIN code, siren will sound 5 times and you have successfully entered the programming mode. LED will start to flash rapidly.

2. Push any button on the remote control within 5 seconds. If you don't push any button or if you turn off the ignition, system will automatically finish the programming.

3. Siren will confirm programming the remote with a short sound. Depending on which remote was programmed, so many times will the siren sound. Programming the first remote will be confirmed with one beep, second remote with two beeps and third remote with three beeps.

4. If you want to program new remote, you have to program also any other remotes, which are already programmed in system.

5. System allows to program a maximum of 3 remotes. When programming new remotes, older ones will be automatically erased from system.

IX. EMERGENCY REACTIVATION

1. Open the doors and turn the ignition on.

2. Push the valet button so many times, which is the value of the first number in PIN code within 8 seconds and then turn of the ignition. If the security mode is turned of, siren will sound 2 times, direction lights will flash 2 times and system will be disarmed. If the security mode is armed (function F18), LED will start to flash slowly. Enter the security mode. If you have entered correct PIN code, siren will sound 2 times and direction lights will flash 2 times. System will be disarmed.