



iWATCHER[®] GUARD

made by SPETROTEC

Security & Tracking Solution

iWatcher GUARD is a versatile Cellular based security system GSM/GPS and Immobilizing system provides theft deterrence by preventing unauthorized drivers from using the vehicle. The control unit provides on-line tracking capabilities for cars and trucks.

iWatcher GUARD solution comprises one or more wired or wireless miniature engine cut unit(s) that are operated with an illuminated keypad for driver identification. The engine blocker is an unobtrusive electric unit installed in the vehicle in such a way that it looks like an original part of the vehicle. Its primary goal is to prevent the engine from running if an unauthorized driver enters the wrong code.

Utilizes the Global Positioning System (GPS) to lock on vehicles coordinates and use the GSM cellular network for controlling and monitoring the vehicle status by SMS and GPRS communication channels.

The unit connected to a user-friendly application, which enables to control the iWatcher GUARD remotely and to receive essential information and alerts from the vehicle. The unit also incorporates flexible I/O signal. Designed to meet strict automotive standards for durability, power consumption and temperatures.

The App enable to get a control over the iWatcher GUARD unit by mean of: real time vehicle location on online map, getting alerts on over speeding, tilt and tow events, low battery and battery cut off status, Arms and Disarms the system, Ignition status (on/off) and vehicle status (driving, parking).

Benefits

- Vehicle tracking in real time on online map, using application or fleet management control application (MABAT online)
- Ability to arm / disarm the vehicle security system remotely, using original car remote keys or with application and keypad for driver identification
- The system features a valet mode for limited driving and auto/passive arming modes
- Provide alerts on burglary attempt, over speeding, towing, tilt, low battery and battery cut-off
- Allow to change the keypad code remotely by SMS or by control center
- Characterized by low power consumption, long standby time with internal battery
- Incorporates multiple I/O interfaces for monitoring and control
- FOTA (Firmware Over the Air) update
- GPRS or SMS communication
- Cellular Application



Technical Specifications

GSM

- 2G USA version: bands 850 / 1900 MHz
- 2G EUR version: bands 900 / 1800 MHz
- 3G USA version: bands 850 / 1900 MHz
- 3G EUR version: bands 900 / 1800 MHz
- GPRS multi-slot Class 10/8
- Internal antenna - 50 Ohm Onboard
- Integrated SIM card holder

GNSS

- Internal GPS Module based on 56-channel (U-Blox) Max 7 Engine
- GPS/QZSS L1 C/A, GLONASS L1 FDMA, SBAS: WAAS, EGNOS, MSAS
- Accuracy GPS / GLONASS position of 2.5m CEP/4.0 m
- SBAS 2.0 m CEP
- Tracking: -162 dBm / -158 dBm
- GPS-GLONASS Internal antenna

Interfaces

- 4 digital inputs - 2 Active Low + 2 Active High
- 4 digital outputs
- RS232 for maintenance
- 2.4 GHz wireless communication

Electrical characteristics

- Operating Voltage 12 - 24 V DC
- RF receiver ON < 8.6mA
- Standby mode < 4mA
- Deep sleep mode < 2 mA
- Backup battery - Li-ion 3.7 v/1000 mAh

Communication Modes

- SMS/GPRS /RS232

Operation

- Cellular application or SMS based communication

Miscellaneous

- Red indicator LED
- Built in 3D G sensor

Alerts

- Over speeding
- Tow & tilt
- Door status (vehicle applicable)
- Battery cut-off and low level
- Ignition state (on/off)
- Vehicle state (arm, disarm, alarm, driving)
- Position + last time stamp
- Alerts sent to 2 cellular phones

Controls by Application or SMS

- Remote arm/disarm
- Remote siren activation
- Get status

Operating temperature

- (-30°C to +85°C)

Dimensions

- Length 83 mm | Width 71 mm | Height 29 mm

Weight

- 90 gr (without cable)

Enclosure

- Nonflammable PC-ABS
- IP65 version - optional

Accessories

- Normal arm/disarm by original vehicle keys
- On dash keypad + wired cut-off unit + optional wireless cut-off unit

Features



Alert on speeding



Towing alert



Theft alert



Locate your vehicle



Remote siren activation



Arms and Disarms with original car remote keys



Arm and Disarm



SPETROTEC

Advanced Telematics & Security Systems

5 Mevo Kedem St., Industrial Zone Gil Amal, Hod Hasharon 4531825, ISRAEL

+972.9.743.4555 +972.9.742.3666

www.iwatcherapp.com info@spetrotec.com

