



# iWATCHER™ made by SPETROTEC

## CELLULAR ALARM

## Vehicle Tracking & Alarm Device

### Product Description

i-Watcher™ Cellular Alarm is a versatile and cost-effective GSM/GPS cellular alarm and control unit, that prevents stealing attempts and provides on-line tracking capabilities for cars, trucks and motorbikes.

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 and graphic interface smartphone application, that enable to control the i-Watcher™ 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 i-Watcher™ unit by mean of: real time vehicle location on On-Line Map, getting alerts on over speeding, Tilt and Tow events, low battery and battery cut off status, prevent ignition back in case of theft attempt, Arms and Disarms the system, Ignition status(on/off) and vehicle status (driving, parking).

### Benefits

- Enable to locate your vehicle in real time on On-Line Map using Smartphone application and also offer Fleet Management and Control Application (MABAT On-Line).
- Enable to Arms and Disarms the vehicle security system remotely with using one of the following options:
  - ✓ with original car remote keys
  - ✓ proximity card
  - ✓ wireless code remote
  - ✓ Key pad on dash
- And with the smartphone application.
- Provides alerts on theft attempt, over speeding, Towing ,Tilt, low battery and battery cut off.
- Prevent ignition back in case of theft attempt.
- 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 capability.
- GPRS or SMS communication.



# Technical Specifications

## GSM

- GSM Quad-Band: 850 / 900 / 1800 / 1900 MHz
- GPRS class 10
- Onboard GSM quad band printed antenna - 50 Ohm
- Integrated SIM Card holder
- 3G - optional

## 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

## 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

## Alerts

- Over speeding
- Tow and 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 can be sent up to 2 Cellular Phones

## Controls by Application or SMS

- Remote arm/disarm
- Remote "prevent ignition back"
- Remote siren activation
- Get status

## Operating temperature

- (-30°C to +85°C)

## Dimensions

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

## Weight

- 82 gr (without cable)



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## Enclosure

- Nonflammable PC-ABS
- IP-67 version - optional

## Communication Modes

- SMS/GPRS /RS232

## Operation

- Cellular application or SMS based communication.

## Miscellaneous

- Red indicator LED
- Built in 3D G sensor

## Interfaces

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

## Accessories

- Normal arm/disarm by original vehicle RF - original keys
- Optional - RF Proximity Card for driver identification or Wireless remote controls - 2 units per i-Watcher Cellular Alarm.
- Optional - On dash Keypad

## Features

