



## Advanced Vehicle Tracking Device

### Product Description

i-Watcher™ AVL is a versatile and cost-effective GSM/GPS cellular monitoring unit which provides Online 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 also incorporates flexible I/O signal.

Provides essential features applicable for most Automated Vehicle Locating (AVL) solutions, such as tracking and retrieval of stolen vehicles, fleet management and other emergency and security applications.

Designed to meet strict automotive standards for durability, power consumption and working temperatures.

i-Watcher™ AVL supports a wide variety of reports including emergency, geo-fence, Speed, Tilt, Tow, low battery, battery cut-off , Ignition status(on/off), Vehicle status (driving, parking) and scheduled GPS position.

### Benefits

- Enable to locate your vehicle in real time on On-Line Map.
- Offers Fleet Management and Control Application (MABAT On-Line).
- Provides alerts on speeding, Towing, Tilt, low battery and battery cut-off.
- Prevent ignition back in case of theft attempt (by control center request).
- Characterized by low power consumption, long standby time with internal battery.
- Incorporates multiple I/O interfaces for monitoring and control.
- Alerts dispatch up to 3 Cellular Phones.
- FOTA (Firmware Over The Air) update capability.
- Panic Alert feature.

▶ **Outputs:**  
Buzzer/Siren  
Prevent Ignition back  
- Analog input

▶ **Inputs:**  
Panic Button  
Ignition Switch



# Technical Specifications

## GSM

- GSM Quad-Band: 850 / 900 / 1800 / 1900 MHz
- GPRS multi-slot Class 10/8
- Internal antenna - 50 Ohm Onboard
- 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 2.5 m CEP / 4.0 m
- SBAS 2.0 m CEP
- Tracking: -162 dBm / -158 dBm
- GPS-GLONASS Internal antenna

## Interfaces

- 4 DIGITAL inputs – Ignition ON/OFF, Panic Button, Alarm Siren, Alarm Lights.
- 4 DIGITAL Outputs – (kill engine, Doors), 4 Outputs open collector driven 12/24V 250mA - two outputs can be configured, as analog inputs (factory configuration)
- RS232 for programming and accessories communication

## Electrical characteristics

- Operating Voltage 12 – 24 V DC

## Power Consumption:

- Sleep mode < 2 mA
- Backup battery - Li-ion 3.7 v/1000 mAh

## Features



Alert on speeding



Battery cut-off



Low battery level



Towing alert



Fleet Management and Control Application



Panic Button - Optional



Fuel sensor - Optional



Temperature sensor - Optional

## Communication Modes

- SMS /GPRS/RS232 (on Stand By OR full operation mode)
- TCP/IP

## Communication redundancy

- SMS backup
- Data logger backup

## Miscellaneous

- Onboard Status led
- Built in 3D G sensor – Tow and Tilt.
- Jamming detector
- Over speed, Vehicle battery cut-off and low power level - alerts
- Up to three Cellular phones for getting alerts.

## 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

## Accessories

- Panic Button – OPTIONAL
- Temperature sensor – OPTIONAL
- Fuel sensor - OPTIONAL



5 Mavo Kedem St. Industrial Area Gil Amal. Hod Hasharon 45317 ISRAEL

+972.9.743.4555 +972.9.742.3666

www.iwatcherapp.com info@spetrotec.com

