

GEOSPOT

GPS Tracker with Magnetic Attachment

- Very sensitive GPS receiver based on the SiRFstarIII module
- GSM/GPRS quad-band module
- Compact case with IP65 degree of protection and with battery and built-in antennas
- Equipped with 4 powerful magnets for fast installation
- Accelerometer and vibration sensor
- Memory for recording positions and events
- Configuration by means of SMS or from the PC using the GTrack Lite software supplied
- Built-in RTC for timed and programmed operation
- Battery life up to over 1 year
- Designed and developed for highly reliable operation in a hostile environment



General Features

GEOSPOT is a compact tracking device, with IP65 degree of protection, powered by a built-in high capacity Lithium battery. GSM and GPS antennas are also built into the case to guarantee compactness and quick installation.

GEOSPOT can be installed outside objects or vehicles in motion. The case is equipped with four powerful magnets capable of securely supporting its weight to guarantee extremely quick assembly.

GEOSPOT is equipped with an accelerometer and a vibration sensor which allow the reduction of energy consumption to zero when the device is inactive. According to the type of battery fitted and the interval at which data is sent, battery life can vary from several days to more than a year.

Connection with the control centre can be established after a call by the operator if the device detects an event such as the movement of the vehicle.

GEOSPOT has an internal memory for data recording. It can be programmed to record approximately 20,000 positions detected by the GPS receiver and it automatically records about 1,900 events.

A complete location and tracking system can be created using GTrack software and maps, supplied by request.

GTrack software makes it possible to follow the moving target on the map displayed on the PC and to control all the functions of the GEOSPOT tracker.

Advantages

- GEOSPOT is designed to offer maximum reliability even in extreme working conditions, such as extensive changes in temperature, extreme humidity, condensation and vibrations.
- The strong, compact case, the set of powerful magnets and the IP65 degree of protection make installation extremely quick and easy.
- The considerable sensitivity of the GPS module used makes it possible to follow the target even in critical situations with indirect reflected signal reception.
- The quad-band module makes connection possible in all countries and areas where the GSM network is available, ensuring the most extensive monitoring of moving objects.
- The possibility to programme the device using different methods (SMS, GPRS/modem connection) makes it easy to control in any situation.
- The firmware can also be updated using the GSM/GPRS remote connection, with the great advantage of being able to upgrade or add functions without having to recall the device.

Applications

- Monitoring of moving objects
- Tracking of hire vehicles and equipment
- Tracking of containers
- Prevention of theft and aid in recovering vehicles or property

Main Features

Enclosure

- IP65 case to ensure outdoor operation in all weather conditions.
- Four powerful magnets guarantee a secure grip to the vehicles to be monitored, withstanding jumps and impacts.
- No need for antennas or external devices.
- Possibility to mount both a non-rechargeable lithium battery pack and a rechargeable lithium-polymer battery pack(1), according to application needs.

Functions

- Completely remote controlled operation statuses and device programming.
- Tracking coordinates can be sent by SMS, GPRS or GSM data channel, according to need or convenience. They can be sent automatically or following a request from the control centre.
- 675kB of non-volatile memory for recording data, corresponding to approximately 20,000 positions detected and about 1,900 events determined by sensors or other operating situations.
- Serial port for local communication with the PC.

Sensors and Alarms

- The accelerometer together with the vibration sensor makes it possible to apply power-saving parameters when the vehicle is standing still and to optimise the amount of data sent and recorded, without losing useful information. The sensor has 10 levels of sensitivity, which can be set using the remote control system. When the set value is exceeded, the device will automatically send an SMS text to the number programmed, signalling the event. The same happens when motion ceases.
- While motion is detected, the device can establish a continuous connection with the control centre to enable the tracking of the moving vehicle. All the sensor functions can be programmed to suit application needs.
- Detection of exit from the area (geofence). If the vehicle or object monitored leaves a rectangular area determined by programmed geographic coordinates, the event is detected immediately and an alarm is sent.

Other

- Possibility to transfer the data recorded to the PC via GSM data connection, GPRS or local connection.
- Built-in RTC for time-scheduled operation.
- Firmware upgrades or the addition of functions, not only via the serial port connected directly to the PC, but also using the remote control system via GSM/GPRS connection. This exclusive function make it possible to carry out maintenance on the device without the need to recall it, saving considerable resources. The fact that the device is upgradeable adds further value, making it possible to keep the system constantly up to date.

(1) *Rechargeable Li-Po batteries have a lower capacity than Li-SOCI₂ batteries and have different features with regard to working conditions (temperature limits, self-discharge, etc.). Consider the application carefully when choosing which kind of battery to use.*

Specifications

Battery	Li-SOCI ₂ 3,6V - 28 Ah or Li-Po 3,7V - 12 Ah rechargeable
GPS receiver:	20 channels 159dBm SiRFstarIII
GSM frequencies:	850 / 900 / 1800 / 1900 MHz
GPRS:	class 10
Data memory:	675 kBytes non-volatile FLASH 20,000 positions and 1,900 events
Communication port:	no.1 RS232
Sensors:	accelerometer and vibration
Dimension / Weight:	78x129x49 mm / 500 gr approx (with 28Ah Lito battery)
Material:	ABS UL94-V0
Protection degree:	IP65
Operating temperature:	from -20 °C to +70 °C
Certifications:	CE mark

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