

# TICK

Magnetic GPS tracker



## DEVICE DESCRIPTION

This device communicates through GSM/GPRS networks only and is able to locate any object via GPS satellites.

Usages:

- Protection of children/the elderly/disabled, etc.
- Protection against theft of vehicles/heavy equipment, etc.
- To provide peace of mind for businesses
- Personnel and vehicle monitoring

## DATA LOGGING

The tracker device uses an internal memory to store up to 8000 records. When the device loses the GSM/GPRS signal, GPS reception continues and all positions are automatically logged into the internal memory according to the preset conditions. When re-connected back to a sufficient GSM/GPRS network, stored GPS positions will be sent automatically.

If the device is without a GSM/GPRS signal for too long, it will automatically overwrite the memory, starting from the oldest recorded item.

Please note: every GPS position must be sent from the device before it is displayed in the monitoring software; NAM tracker application or other applications/systems.

## SIM CARD

The device is already equipped with a SIM card as it is a sealed waterproof unit.

The particular (specific to the tracker) information about the SIM card and services can be found in NAM tracker application.

## OPERATING MODES

The device allows you to choose from 5 different power-consuming modes some which will extend battery life expectancy and allow use of the tracker in the terrain without charging.



### 《VIBRATIONS》

switches off. Locations are registered every 10 seconds and location details are sent once a minute. The battery life can be from 1.6 days (if tracker is constantly in motion) to 11 days (if the tracker is not in motion at all).

5 sec



around 10 hours in this mode.

**ABM (Activated by Motion)** – The device switches on GPS at the instant when it registers movement. If the device is not in motion, the GPS

**Car Chase** – Location details from GPS are sent every 5 seconds regardless of whether the vehicle/tracker is moving or standing. The battery life is



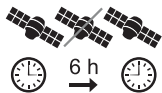
immediately accept signals for switching into a different mode (ABM, Car Chase, Asleep, Periodic wake up) for when it is necessary to re-start the monitoring process. The battery life is around 9 days in this mode.

**Standby** – The tracker does not monitor locations, the accelerometer or the detection of tracker removal in this mode. However it is ready to



**Asleep** – The tracker does not monitor locations, the accelerometer or the detection of tracker removal but it is able (after a preset interval) to

accept signals for switching the device into a different mode in order to re-start monitoring. The battery life can be from 21 days to 144 days depending on how often the interval is set to check for a mode change signal.



**Periodic wake up** – The tracker is woken up after a preset period, finds out its location, sends this information and then goes back to sleep. The battery

life can be between 10 days and 126 days depending on the regularity of the set interval for sending location details.



**Power OFF** – This is the recommended method for storing the tracker device when it is not being used.

The device is completely switched off. It is possible to wake the unit and set the required operating mode by charging the device.

## DEVICE RECHARGING

The tracker is recharged by using a battery charging pad, compatible with the Qi wireless charging standard. We strongly recommend usage of the supplied charging pad and the power adapter.



The charging pad must be plugged in and switched on. Immediately after insertion into the power socket the LED light should give one short blue flash.

Place the tracker onto the pad with the magnets facing upwards. Correct charging is signaled by a blue LED. **If, during charging of tracker devices without magnets, the LED is not lit up, please turn the tracker over, otherwise the tracker will not be charged.**

If the tracker batteries are completely discharged it will take around 4 hours for them to be completely recharged again.

### Possible charging pad LED signals:

- Solid blue LED – correct charging in progress
- Flashing blue LED – charging has stopped due to error (please see the trouble shooting guide)
- Solid green LED – charging has stopped, the batteries are full

### Troubleshooting of charging errors

- Remove the tracker from the charging pad, wait 5 seconds and put it on the pad again. Make sure the position on the pad is slightly different from the previous spot and close to the centre of the charging pad.
- If the LED starts flashing again, please place a piece of solid plastic or piece of paper up to 3 mm thick between the bottom of the tracker and the top of the charging pad. Do not use any metallic object.
- If the blue LED does not light up when the device is put on the charging pad, try a different charging pad and/or switch the power adapter. It is strongly recommended to use the supplied parts only.

**TECHNICAL SPECIFICATION**

GSM communication bandwidths	850 / 900 / 1800 / 1900 MHz, compliant to GMS phase 2/2+
GPS position accuracy	< 2.5 m CEP
Dimensions	80 mm × 44 mm × 26 mm
Ingress protection	IP67
Weight (with battery and magnets)	131 g
Battery (internal only)	Li-Ion, 3.7 V, 2050 mAh
Transmission protocol	UDP, SMS
Scheduled reports	according to preset programmes
Low power alert	low and critical internal battery level alarm
Seize detection <sup>1</sup>	autonomous handling and manipulation detection
Motion detection	triggers GPS tracking in active modes
Technical (wake up) reports	sends the general GPS tracker status

<sup>1</sup> The seize detection is specific to devices which use a magnetic attachment system.

## SAFETY PRECAUTIONS

### Battery pack

The device contains a lithium battery. The battery is not user accessible and is not intended for repair and/or replacement

- Use only the charger supplied with your device, or a charger with identical parameters. Use of another type of charger may result in malfunction and/or risk of danger.
- Do not use the charger in very damp/moist environments. The surface of the charger and/or the device may become hot during and shortly after charging. Do not cover the charger with any object that will reduce cooling.
- Do not use the charger if it is visibly damaged. In case of damage, do not repair any part of the equipment yourself!
- Never attempt to disassemble, repair or make any modifications to the device(s). This could cause damage to the device(s) and even bodily injury. Any warranties will become void.
- If the battery pack is mishandled it could burst causing a fire or even chemical burns. Do not expose the device or the battery pack to temperatures above 80 °C (magnetic devices could lose part of their attractive force as well).
- Only recycle the device(s) and their batteries according to your local laws.

### Magnets

- Particular models of the device contain strong neodymium magnets. The pull-strength (attractive force) may be up to 10 kg.
- Mishandling could cause jamming of fingers or skin between the device and other devices with magnets or metallic surfaces.
- Keep magnets at a safe distance from pacemakers, hearing aids, sensitive data storage media (mechanical HDD), mechanical watches, displays, ATM cards and sensitive electronics.
- Vehicle keys, USB sticks, memory cards, and mobile devices data storage (SSD, memory cards) are not affected by magnetic fields and should not be erased, damaged or malfunctioned.

## THE DEVICE WARRANTY POLICY AND PROCEDURES

The warranty for the TICK device is 12 months. The 12 month warranty will commence upon the day of the invoice date. The client has responsibility to contact the official distribution partner of NAM system from whom the TICK device was bought. If the official distribution partner of NAM system (ODP) is unable to remotely solve a unit malfunction for the client, the unit will need to be returned.

### Replacement of defective device(s)

Upon receipt of the returned TICK device and/or the device accessory, ODP will inspect the device for physical damage and test its functions. If the device meets the warranty conditions, ODP will process and ship new device(s) to the client according to the exact quantity and type of device(s) being returned. If results of the inspection indicate that the problem is a result of physical damage or other external effects, conditions for Out of warranty service (OWS) will apply.

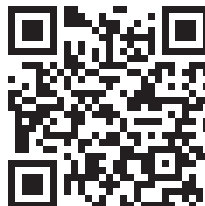
### Defective on Arrival (DOA)

A tracker device or device accessory is considered DOA if it shows symptoms of a device failure, that prevents basic functioning, when taken out of the box and first used. If you consider the device or its accessory as DOA, please contact ODP or the seller from which you have bought the device. A DOA request can be made within 14 calendar days of the invoice date.

If the device returned meets the conditions of the DOA request, a replacement (of the same device type) will be sent to you. The official distribution partner or the seller will contact you with the replacement details and the procedure for returning the DOA device/accessory if needed.

### Out-of-Warranty Service (OWS)

Repairs of Out-of-warranty devices, accessories, or damage not covered under the warranty will be charged to the customer.



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PRODUCER:

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