

## Warranty Card

Device Name	Serial Number	IMEI
GPS/GPRS-tracker MT400		

**Warranty service term – 12 months**

### Warranty repair talon

Malfunction description \_\_\_\_\_

Executed actions \_\_\_\_\_

Administrant \_\_\_\_\_ Date \_\_\_\_\_ Sign \_\_\_\_\_

### Warranty service liability

1. The warranty service term is 12 month since the device bought.
2. The warranty service request should be claimed immediately after malfunction found.
3. Correctly filled warranty card grants you malfunction fix or repairing free of charge.
4. Batteries, fuses, mounting wires and framework parts are not included into the warranty service.
5. The warranty service does not guarantee any payment compensation.
6. The manufacturer must exchange broken device for the new one if the malfunction can't be fixed within 2 weeks.
7. The device warranty service will be cancelled in case of:
  - 7.1. device opening, repairing or modernization made by anyone (including customer) who is not authorized by manufacturer;
  - 7.2. device malfunction caused by voltage that exceeding manufacturer standard, neglect or accident;
  - 7.3. any mechanical damage, water penetration or environ neglect found.

### Parties responsibility limitation

The manufacturer is responsible only for device functioning according to warranty liability and does not took upon oneself responsibility of installation quality, mobile operator service, broadcasting station, etc.

Selling date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Seller sign \_\_\_\_\_

Buyer sign \_\_\_\_\_

# GPS/GSM/GPRS-tracker MT400

GPS/GSM/GPRS-tracker – is a transmission device using for monitoring any mobile object.

A tracker precisely determines its current location using GPS (Global Positioning System) and then send received data from any installed detectors and systems to the tracking server using GPRS (General Packet Radio Service).

The MT400 trackers have the highest reliability, sensitivity, economy indicators and may be adapted to any objectives you need because of wide variability of its settings parameters.

## Main abilities and characteristics

GPS receiver sensitivity.....	-172 dBm
GPS receiver autonomous channels quantity.....	66 Ch
Onboard supply voltage range.....	6-42 V
Onboard network in-motion amperage.....	12 mA
Onboard network non-motion amperage.....	6 mA
Integral battery full-charge time (not more than).....	2 hours
Autonomous integral battery work (not less than).....	72 hours
Recording tracks to memory without sending to server (not less than).....	30 days
Minimal registered rotation angle.....	1 degree
Maximum “cold start” time.....	35 sec
Software update using the website.....	Available
Tracker settings change using the website.....	Available
SMS-commands control.....	Available
Framework opening optical detector.....	Available
Integral GPS and GSM antennas.....	Available
Battery overheating and high discharge protection.....	Available
Temperature range using onboard network.....	-40...+85 °C

## 4 specialized analog inputs:

Vehicle onboard supply control input.....	10 bit
Integral battery control input.....	10 bit
Framework opening detector control input.....	10 bit
Integral temperature detector control input.....	10 bit

## 3 universal inputs with 5 programming variants:

“Alarm button” input.....	10 bit
“Security zone” input.....	10 bit
“Power” input.....	10 bit
“Fuel detector” input.....	10 bit
“Temperature detector” input.....	10 bit

## 2 universal inputs with 5 programming variants:

Engine function permission.....	200 mA
Engine function block.....	200 mA
Service devices supply.....	200 mA
Led indicator.....	200 mA
Alarm notifier.....	200 mA

### **Preparation of SIM-card with GPRS-packet**

1. You should purchase SIM-card with GPRS packet or establish GPRS-connection using the mobile operator with traffic not less than 10-20 megabyte per month
2. Place the card into mobile phone
3. Turn the PIN-code entering when the phone is turning on off in the Settings menu
4. Set up your own mobile number in international format in the Contacts menu
5. Make a call to activate your SIM-card automatically
6. SIM-card must be registered on GSM-operator's website if it is needed
7. Turn the phone off and remove the SIM-card that was set up.

### **Installing prepared SIM-card into the tracker**

1. Spin off 2 screws and remove the top ribbed cover out of framework
  2. Make sure that GPS-tracker is not switched on (watch the led indicator)
  3. Place prepared SIM-card into the GPS-tracker
  4. Return the top ribbed cover to its place and spin back 2 screws
- Attention!** SIM-card should be installed and removed with switched off external power supply and GPS-tracker. Otherwise SIM-card may be damaged

### **Integral led indicator**

Led indicator is not spark and blink – tracker is off  
Continuous spark – tracker is off, battery is charging  
Symmetrical blink – tracker is off, battery is full charged  
Frequent short sparks series – tracker is turning on  
Infrequent single sparks – backup power, satellites are not registered  
Infrequent double sparks – backup power, satellites are registered  
Infrequent triple sparks – main power, satellites are registered  
Long sparks series – tracker is turning off

### **GPS-tracker website registration**

1. Sign up on website: *new.navi.cc*
2. Add your tracker **IMEI** for supervision

### **Free trackers server maintenance**

GPS-tracker MT400 has a maintenance for a total exploitation time free of charge using the *new.navi.cc* website

The only thing you pay is the mobile operator services for 10-20 megabytes of GPRS-traffic per month.

### **Web service capabilities**

Guaranteed data storage time.....365 days  
Minimal data update time.....60 sec

### **Advanced web service capabilities**

Guaranteed data storage time.....730 days  
Minimal data update time.....10 sec  
Advanced web service capabilities payment should be discussed by the parties.

## Integration of GPS-tracker with the car

1. If the car dashboard is radiotransparent (plastic, leather and similar materials) you should install the tracker under the dashboard close enough to the windshield. If the car dashboard metallic or tracker might be covered by any item that suppresses the signal, the tracker should be installed on specialized horizontal stand fixed on the dashboard close enough to the windshield. The ribbed top of the tracker must be turned up and fixed in that position using double-sided tape.
  2. Plug in the **black** wire of tracker into the car integral terminal. If the car has an integral “mass” switch the black wire must be connected with “minus” terminal of the car battery.
  3. Plug in the **red** wire of tracker to the power supply bus of the car +12/24 V. Tracker power supply should not be lost when the engine starts and shuts down.
  4. Plug in the **yellow** wire of tracker to the normally exposed contacts of the Alarm button, if needed. The second contact of the Alarm button connects to the car carcass. If the Alarm button pushed *new.navi.cc* web service will register such action and the phone with registered SIM-card will receive SMS.
  5. Plug in the **grey** wire of tracker to the security loop which is connected to carcass, if needed. If the loop is damaged or must be recovered, the phone with registered SIM-card will receive corresponding messages and the website will register corresponding actions.
  6. Plug in the **pink** wire of tracker to the integral ignition circuit, to the fuel consumption detector or to the fuel level detector, if needed. To connect the fuel level detector or fuel consumption detector, watch the installation manual.
  7. Plug in the **green** wire of tracker to the additional relay coil with the normally exposed contacts, if needed. The other coil output must be connected with ignition circuit. The relay contacts must recover the engine broken circuit. For remote engine shutting down the telephone number of the SIM-card has to receive SMS with text: **Enable off**, to restore the engine functioning: **Enable on**.
  8. Plug in the **brown** wire of tracker to the additional power relay coil with normally enclosed contacts, if needed. The other coil output must be connected with ignition circuit. The relay contacts must break the engine circuit. For remote engine shutting down the telephone number of the SIM-card has to receive SMS with text: **Disable on**, to restore the engine functioning: **Disable off**.
- Attention!** If the tracker APN is not the [www.kyivstar.net](http://www.kyivstar.net) – the telephone number of the SIM-card has to receive SMS with text: **Param gsm.apn \*\*\*** where the \*\*\* is the APN of your operator.

### **Administrator control using SMS**

In case if you want the tracker to perceive the SMS-commands from only one telephone number, the tracker telephone number has to receive SMS with text:

***Admin+380xxxxxxxx*** or ***Admin me.***

In case if you want the tracker to send the SMS about programmed actions to the mobile telephone, the tracker telephone number has to receive SMS with text:

***Alarm+380xxxxxxxx*** or ***Alarm me.***

In case if you want to prevent anyone of supervising your tracker, the tracker telephone number has to receive SMS with text: ***Code \*\*\*\**** where ***\*\*\*\**** any 4 numbers. After you send this SMS you have to visit ***new.navi.cc*** website and reject the supervising of the current tracker: ***xxxxIMEIxxxx*** and register the new tracker ***xxxxIMEIxxxx-\*\*\*\****.