

MP91 4G OBD Tracker

User Manual V2.0



Preface

Congratulations on choosing Mictrack MP91 4G OBD GPS tracker. This manual shows how to easily program and setup the tracker for best results. Make sure to read this manual carefully before using this product, so as to avoid delays or confusion with it's operation. Please note that specifications and instructions are subject to change without notice to facilitate product improvement. Updates and changes will be integrated into the latest release. The manufacturer assumes no responsibility for any errors or omissions in outdated documents.

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1. Overview

The MP91 is a plug-and-play 4G OBD tracker without wiring. Easy install to any vehicle with a standard OBD II connector. It can be used locate, track and monitor the vehicle via SMS, PC Computer or Mobile APP. It is commonly used to track and locate individual vehicles, the user also can real time tracking and check the historical route travelled.

2. Application

- **4G FDD LTE network support**
 - OBD II connector easy to install (Plug and Play)
 - Real-time position acquiring
 - Vehicle trip history and mileage data on web tracking platform
 - Geo-Fence alarm and reporting
 - Over-Speed alarm and reporting
 - Remove and disconnect alarm
 - Backup battery low power alarm
 - Power saving / sleep mode
 - Compatible with most of third party platform
 - Open protocol

3. Specifications

Item	Specifications
Dimension	47(L)*41(W)*18(H)mm
Weight	60g
Input Voltage	12VDC
Backup battery	3.7 V 60mAh
Power consumption	50mA standby current
Working temperature	-20°C to 55°C
Humidity	5%~95% non-concretion
Working hour	1 hours in power-saving mode, 0.5 hours in normal mode
LED indicator	4G(Yellow), GPS(Blue), Power(Red)
Sensor	3D acceleration/movement sensor
Antenna	Internal 4G & GPS antennas
GPS sensitivity	-162dB

Positioning Accuracy	2.5m
Cellular Frequency bands	MP91-E 4G LTE: B1/B3/B5/B7/B8/B20 2G: 900/1800MHz
	MP91-A 4G LTE: B1/B2/B3/B4/B5/B7/B8/B28/B66 2G :850/900/1800/1900MMz

4. MP91 interface



5. Installation

5.1 SIM Card installation

To install the SIM card, perform the following operations:

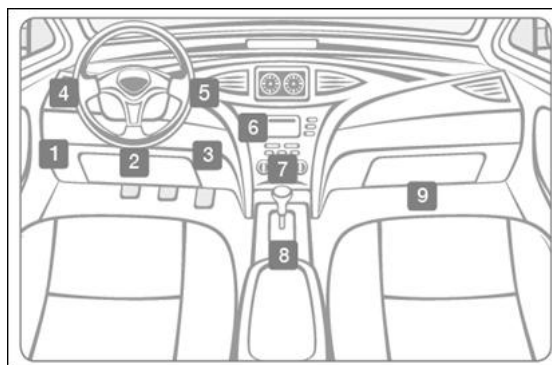
- Get ready a **Micro size SIM** Card with **10-15MB** data a month.
- Insert Sim card to sim card slot correctly (as following picture)
- After that the device will be ready.

5.2 Install the Device

5.2.1 Find the OBD Port:

- The OBD port is usually located under the dashboard, beneath the steering wheel column (1 - 3 in the diagram below).
- Note If not located beneath the steering column, look for the port in the

areas indicated by numbers 4 - 9.



5.2.2 Install the OBD unit

Directly insert the ODB tracker to vehicle's OBD2 interface

5.3 LED Indications

5.3.1 4G indicator (YELLOW)

Status	Description
Blinking	Network initialization
ON	Network is normal / already online
OFF	Network Sleep

5.3.2 GPS indicator (BLUE)

Status	Description
Flashing	GPS unavailable
ON	GPS available
OFF	GPS Sleep

5.3.3 Power Indicator (RED)

Status	Description
ON	Normal operation / OBD working properly
OFF	Shutdown / OBD sleep

6. Setup and Configuration

Following a successful command, you should always receive a reply SMS from the unit. Be patient, as this may take some time depending if the unit is required to reboot to process the command. Failure to reply will indicate either an incorrect SMS Command, or the unit has powered off, lost Cell Mobile signal or run out of SIM Card credit.

6.1 Setting Authorized Mobile Phone Numbers

Command: admin+password+Space+Phone Number

Example: admin123456 13424392330

Reply: admin OK

Note: The defaulted password is **123456**.

6.2 Change the password

Command: password+old password+Space+new password

Example: password123456 000000

Reply: password OK

6.3 Set the preset phone number

Command: 101#phone number#

Example: 101#13424392330#

Reply: OK

6.4 Request the single position

Command: G1234

When sent this command to device, it will reply the location by using Google Link.

<http://maps.google.com/maps?q=+22.64802,+114.03421>

ID:17018449638

ACC:OFF

GPS:A

Speed:0.0KM/H

22-04-01 16:18:29

6.5 Over-Speed alarm

Command : speed+password+space+speed value

Example: speed123456 080

Reply: SET OVER SPEED OK

Disable Over-Speed Alarm

Command : speed+password+space+000

Command : speed123456 000

Reply: SET OVER SPEED OK

Note: Speed range is [0,255] KM/H

6.6 Phone Alarm for shake

Disable phone alarm for shake : 121#

Reply: OK

Enable phone alarm for shake: 122#

Reply: OK

6.7 SMS Alarm for shake

Disable SMS alarm for shake : 126#

Reply: OK
 Enable SMS alarm for shake : 125#
 Reply: OK

6.8 Set APN (Access Point Name)

Command: APN+password+space+apn
 Example: apn123456 cmnet
 Unit Reply: APN OK.

Note: please contact your SIM Card provider to get the correct APN details

6.9 Sleep interval

Command: sleep,password,interval
 Example: sleep,123456,30
 Unit Reply: OK.

6.10 Set Server IP and PORT

Command : IP+ space+ IP address+ space+ port number
 Example:IP 113.98.254.180 8185
 Reply: SET IP OK.

6.11 Set timezone

Command : zone+password+ space+Timezone
 Example:zone123456 E08
 Reply: OK.

6.12 Unplug alert

Device will report alert to server when the device is remove from the vehicle OBD port.

6.13 Sleep mode

When the vehicle ignition is off and devices stop for 2 minutes it will go to sleep mode.

6.14 Device Reboot

Command : CQ
 Reply: system reset OK!

6.15 Device Reset

Command : FORMAT
 Reply: OK

6.16 Device Reboot

Command : CQ
 Reply: system reset OK!

7. Troubleshooting

Issues	Caused	Solutions
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Send SMS to the device but no reply	1>Data only SIM card and don't supported SMS service, 2>New SIM card have not active 3>Card balance is not enough	Please check the SIM card status and make sure it can work.
	Command is wrong	Please check the command format again
	Password is wrong	Please check the password again (default is 0000)
	Connect network fail.	Please check RED LED and only send the SMS command when it is blinking.
Can not power on	Backup battery is low voltage	Please connect to car's OBD Port and make engine ON
GPS platform shows logged off		1.Check the APN setting ; 2. Check IP and port
Device Can not online on the server	Device ID is wrong	Please check the ID
	Device have not active on server	Please contact your sales to active your device's ID
	The IP and port setup wrong	Check the IP and port again
	APN setup error	Check the APN setting again

Any questions please do not hesitate to contact us:

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