

# WhatsGPS G21L High Quality GPS Tracker Instructions

Home » WhatsGPS w WhatsGPS G21L High Quality GPS Tracker Instructions



### **Contents**

- 1 WhatsGPS G21L High Quality GPS
- **Tracker**
- 2 Specifications
- **3 Product Usage Instructions**
- **4 Product Features**
- **5 Installation Instructions**
- **6 Installation Diagram**
- **7 Description of Common Commands**
- 8 FAQ
- 9 Documents / Resources
  - 9.1 References



WhatsGPS G21L High Quality GPS Tracker



# **Specifications**

• Operating voltage: DC 9V - 90V

• Working current: 53mA

• Static current: 11mA

Target method: GPS+BDSPositioning error: < 10M</li>

• Communications network: 2G/4G

• Communication frequency band: LA: LTE-FDD B2/B4/B5/B7/B66 GSM 850/1900 MHz

• Communication mode: TCP

• Range of working temperature: -20~+75

• Working humidity: 2. M10 a%RiHnjF8u5n%RcHtion

• Specifications size: L98.5\*W38\*H17mm

• **Weight:** 71g

• Built-in battery capacity: 300mAh

• Warranty period: 1 year

# **Product Usage Instructions**

# **Relay Wiring Instructions**

### Remote Cut-Off (Fuel/Power) Wiring Diagram:

### **Relay Wiring of the Pump:**

The oil joint at both ends is a thin white line (85) and a thin yellow line (86). Connect the thin white line (85) to the positive power supply (+12V) of the vehicle. Connect the thin yellow wire (86) to the device relay control wire. Cut off the positive connection cable of the pump, then connect in series to the normally closed contact of the relay (thick green line 87A) and connect the other end to the COM contact of the relay (thick green cable 30).

#### Installation Method

The device is recommended for hidden installation under the guidance of professional technical personnel. Important considerations include:

- Avoid placing the device in easily accessible locations to prevent theft.
- Avoid proximity to transmitting sources like reversing radars and other communication devices.
- Secure the device with cable ties or strong adhesive.
- The device has built-in GSM and GPS antennas, ensuring they face upwards during installation with no metal shielding above.

### **Installation Diagram**

The device can be installed around the dashboard, under the decorative panel, or under the rear windshield.

#### **Product Features**

- Real-time location tracking
- · 4G network communication
- · BDS+GPS dual satellite positioning
- · OTA remote upgrade
- Wide voltage 9-90V
- Waterproof IP67
- · Remote oil circuit control
- · ACC status detection
- · Vibration alarm
- · Power -off alarm
- GEO-FENCE alarm
- · Over-speed alarm



Real-time location tracking



4G network communication



BDS+GPS dual satellite positioning



OTA remote upgrade



Wide voltage 9-90V



Waterproof IP67



Remote oil circuit control



ACC status detection



Vibration alarm



Power -off alarm



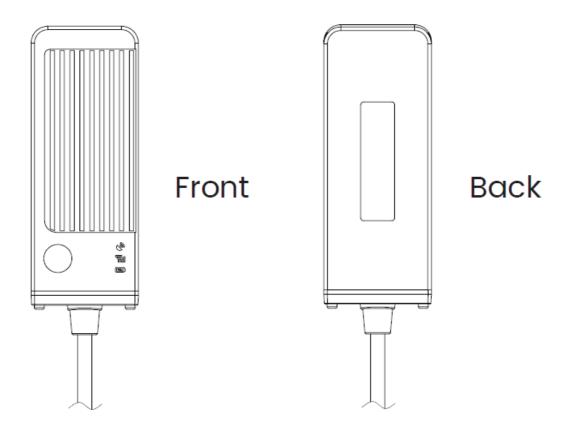
GEO-FENCE alarm



Over-speed alarm

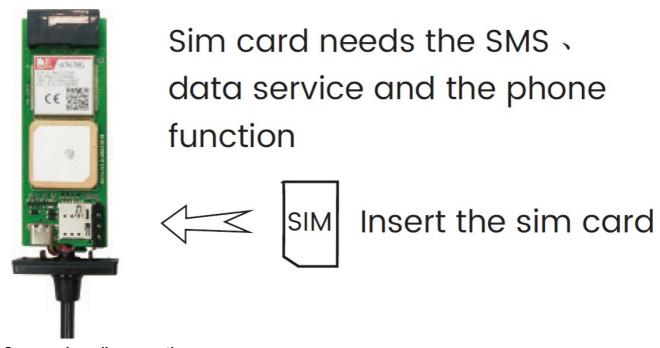
# **Installation Instructions**

# **Appearance**



# **Device online operation**

1. Insert the SIM card into the GPS tracker (SIM card requires SMS, data service and phone capabilities) Turn on the GPS tracker's button and make sure the indicator light is on. (Make sure the device has power, if not, connect it to the vehicle's battery and the battery will power it)



# 2. Command sending operation

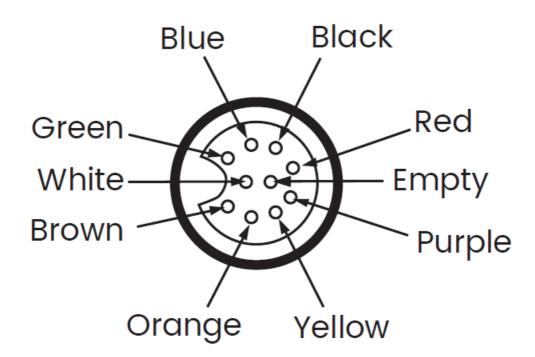
Use your mobile phone to send 2 text messages to the GPS tracker's sim card number

- 1. APN,apnname# This sms is used to connect the gps tracker to your local network. (apnname. is the APN of the local operator of your SIM card, such as APN, cmnet# If you don't know the APN of the sim card, please check it by searching or Consult your local operator)
- 2. SERVER, 1, gps.whatsgps.com, 6801,0 # This sms is to connect the gps tracker to whatsgps tracking

platform If it is other platforms, please refer to this format to send commands. Please refer to the following for details. command list below

3. Log in to the website <u>www.whatsgps.com</u> or download the app whatsgps to check whether the tracker is online

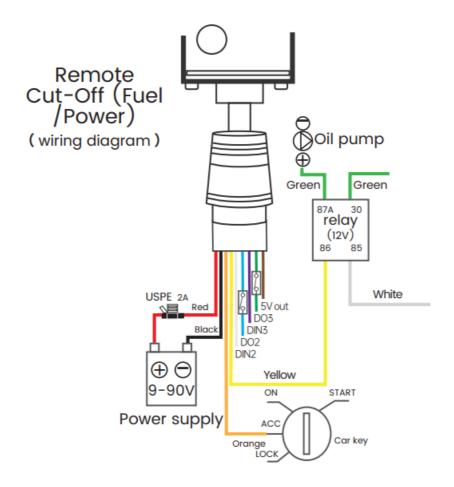
# Wiring definition



Harness Definition	Color	Notes	
V+	Red	Connect to 12V/24V power supply	
V-	Black		
ACC	Orange	ACC line	
OIL	Yellow	Cut off oil line	
DIN2	White	Low Detection (SOS)	
DO2	Blue	Low output (controlling door opening)	
DIN3	Purple	Low detection (door detection)/ High detection/TTL TX	
DO3	Green	Low output (controlling door closing)/TTL RX	
5V out	Brown	DC 5V output (buzzer)	

LED type	LED status	Meaning	
Green	Flash	Network initializing	
	Slow flash	The network reception signal is normal	
	Always on	Network/GPRS online	
		Network signal is not received	
	Not bright	/the card is not inserted	
Blue	Flash	BD/GPS signal search	
	Always on	BD/GPS positioning success	
	Not bright	GPS sleeping/not working	
Red	Always on	Connect the external power	
	Not bright	Disconnect external power	

# **Relay Wiring Instructions**



### Relay wiring of the pump:

The oil joint at both ends is a thin white line (85) and a thin yellow line (86). The thin white line (85) is connected to the positive power supply (+ 12V) of the vehicle. The thin yellow wire is connected to the device relay control wire. Cut off the positive connection cable of the pump: then connect in series to the normally closed contact of the relay (thick green line 87A), and connect the other end to the COM contact of the relay (thick green cable 30).

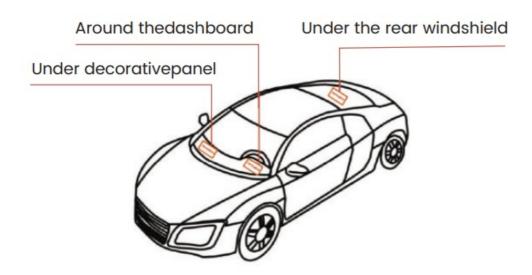
### Installation method

The installation mode of the device is hidden installation.

It is recommended that the installation be carried out under the guidance of the professional and technical personnel designated by the dealer. Pay attention to the following matters:

- To avoid damage by thieves, the device location should be hidden as far as possible;
- Avoid being placed with transmitting sources such as reversing radars, burglars, and other in-vehicle communication devices;
- Can be fixed with cable ties, or with wide sponge strong double-sided adhesive;
- The device has a built-in GSM antenna and GPS antenna. When installing, it should be sure to face up (towards the sky), and there is no metal shielding above.

# **Installation Diagram**



# **Description of Common Commands**

The following commands can be sent via SIM card SMS or issued via whatsgps platform

### Common setup commands

SN	Command function	Command format	Remark
1	Set online	SERVER,1,[Doma inName/IP],[po rt] 0# SERVE R,1, gps.whatsgps.com,68 01 0#	Set the device to point to the Server IP and port
2	Set APN	APN, [APN's name]#APN, cmiot#	The APN varies according to the local tel ecom operator
3	Set upload interval	TIMER,[T1]# TIMER,10#	T1: 5-18000 seconds, motion upload inte rval, the device defaults to 10s
4	Heartbeat interval s etting	HBT,[T]# HBT,3#	T: 1-1440 minutes, heartbeat packet uplo ad time interval, the default is 3min
			A=E/W, for the eastern and western time zones;
5	Set time zone	GMT,[A],[b], [C]#GMT,E,0,0#	B: 0-12, is time zone C: 0,15,30,45, which represents the half time zone and default s to 0.

## **FAQ**

# Q: How do I set up the online server for the device?

A: Use the command format SERVER,1,[DomainName/IP],[port]0# to set the device to point to the server IP and port.

# Q: What is the recommended heartbeat interval setting for the device?

A: Use the command format HBT,[T]# to set the heartbeat packet upload time interval, with T ranging from 1 to 1440 minutes, defaulting to 3 minutes.

# **Documents / Resources**



WhatsGPS G21L High Quality GPS Tracker [pdf] Instructions

G21L, G21L High Quality GPS Tracker, High Quality GPS Tracker, GPS Tracker, Tracker

## References

- \* Agri-Tech Solutions Home
- User Manual

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