WhatsGPS

GPS Positioning Terminal

Model: R11



Manual

1. Product Features



Real-time Tracking



2G network communication



BDS+GPS dual satellite positioning



OTA remote upgrade



Wide voltage 9-90V



IP65 waterproof design



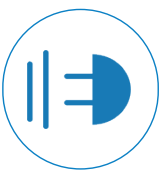
Remote oil circuit control



ACC alarm



Vibration alarm



Power -off alarm



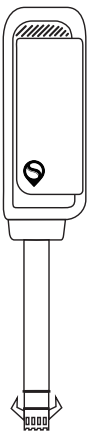
Driver behavior analysis



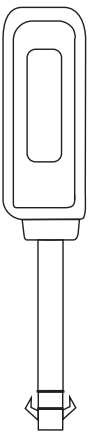
Over-speed alarm

2. Installation Instructions

2.1 Appearance



Front



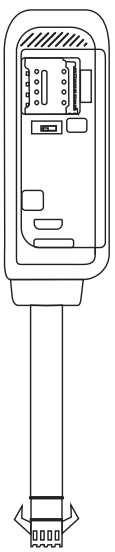
Back

2.2 Device online operation

2.2.1 Insert the SIM card into the GPS tracker (SIM card requires SMS, data service and phone function)

Turn on the button of the GPS tracker and make sure the light is on.

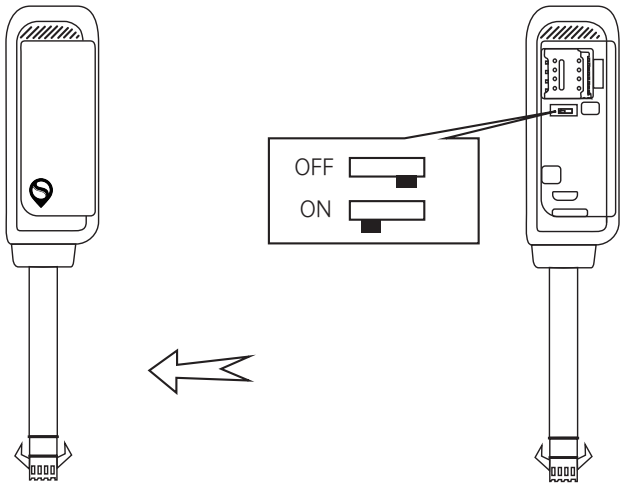
(Make sure the device has power, if not, connect it to the vehicle's battery, the battery will power it)



Insert the sim card



Sim card needs the SMS、data service and the phone function



2.2.2 Command send operation

Please send two text messages to sim card number of GPS tracker using your mobile phone.

1) APN, apnname#

This SMS is used to connect the GPS tracker to your local network.

(APN's name, is the APN of your SIM card's local carrier, such as APN, cmnet# , If you don't know the APN of your sim card, check it by searching or ask your local carrier)

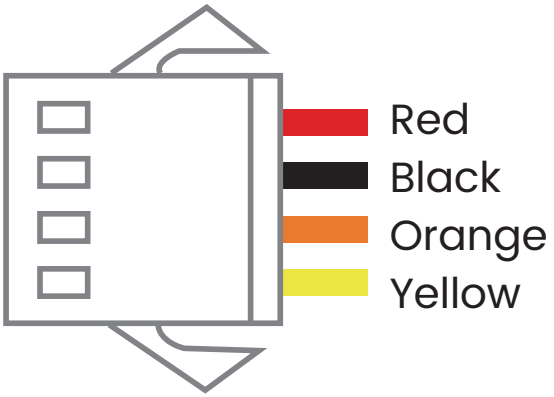
2) SERVER, 1, gps.whatsgps.com, 6801,0#

This SMS is used to connect GPS tracker to WhatsGPS tracking platform

For other platforms, please refer to this format to send commands, see the command list below for details

2.2.3 To see whether the tracker is online, go to www.whatsgps.com or download the WhatsGPS app.

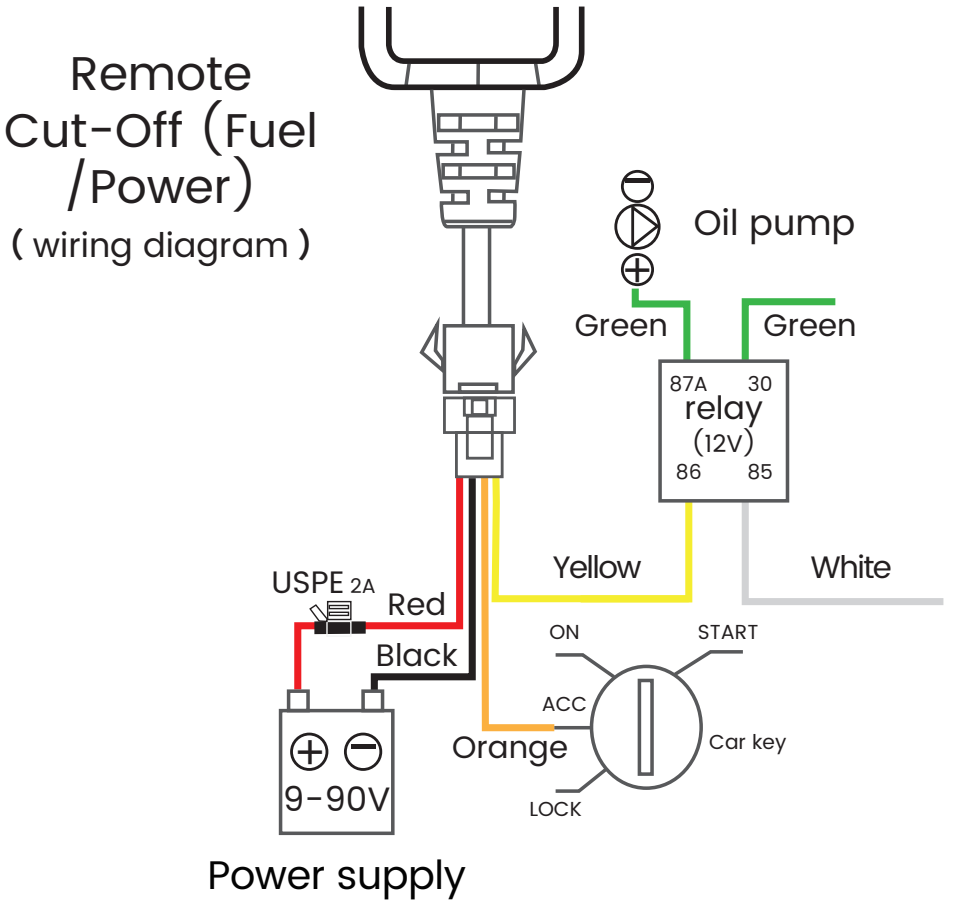
2.3 Wiring definition



Harness Definition	Color	Notes
MOTOR	Yellow	Cut off oil line
ACC	Orange	ACC line
V-	Black	Connect to 12V/24V power supply
V+	Red	

LED type	LED status	Meaning
Red	Twinkle	Network initialization
	Always on	Network/GPRS online
	Not bright	Network signal is not received /the card is not inserted
Yellow	Twinkle	BD/ GPS signal search
	Always on	BD/ GPS positioning success
	Not bright	GPS sleeping/not working

2.4 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 line 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 line 30).

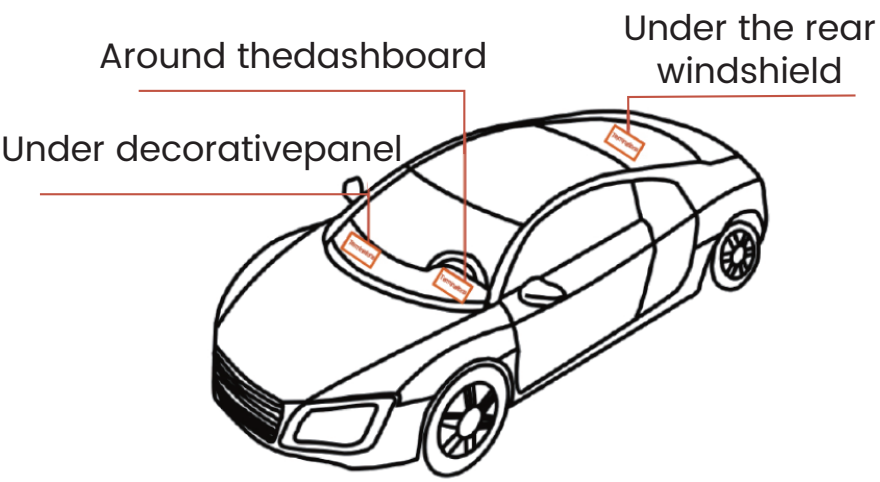
2.5 Installation method

The installation method of the terminal is hidden installation.

installation be carried out under the guidance of professional technicians designated by the dealer . Pay attention to the following matters:

* To avoid damage by thieves, the location of the equipment should be as hidden as possible;
* Avoid placing it together with emission sources, such as reversing radar, anti-theft devices and other vehicle communication equipment;
* Can be fixed with cable ties, or pasted with wide sponge and strong double-sided tape;
* The device has a built-in GSM antenna and GPS antenna. When installing, make sure the front is facing upward (facing the sky) and there is no metal object blocking the top.

3. Installation Diagram



4. Specifications

Project	Specification	Remark
Operating voltage	DC 9V - 90V	
Working current	30mA	12V
Static current	4 mA	When not charging
Target method	GPS+BDS	
Positioning error	< 10M	
Communications network	2G	
Communication frequency band	850/900/1800/1900 MHz	
Communication mode	TCP	
Range of working temperature	-2 0 ℃~ +7 0 ℃	
Working humidity	0% RH ~ 95%RH	
Specifications size	L 78.5 *W 27.4* H 14.3mm	
Weight	27g	
Built-in battery capacity	55mAh	
Warranty period	1 year	

5. Description of Common Commands

The following commands can be sent by SIM card SMS or WhatsGPS platform

5.1 Common setup commands

SN	Command function	Command format	Remark
1	Set online	SERVER,mode,domainName/IP,port,0# SERVER,1,gps.gpsnow.net,6801,0#	Set the device to point to server IP and port
2	Set APN	APN,[apnname]# APN,cmiot#	The APN varies according to the local telecom operator
3	Set upload interval	TIMER,[T1]# TIMER10#	T1:5-18000 seconds, motion upload interval, the device defaults to 10s ;
4	Heartbeat interval setting	HBT;[T]# HBT3#	T:1-1440minutes,heartbeat packet upload interval, default to 3 minutes
5	Set time zone	GMT,[A],[b].[C]# GMT,E,0,0#	A=E/W, for the eastern and western time zones; B: 0-12, is time zone C: 0,15,30,45, which represents the half time zone and defaults to 0.

5.2 Common query commands

SN	Command function	Command format	Remark
1	Query parameters	PARAM#	Query the currently set parameters of the device
2	Query status	STATUS#	Query the current working status of the device
3	Device restart	RESET#	

5.3 Common control commands

SN	Command function	Command format	Remark
1	Remote cut off oil	RELAY,1#	Disconnect the vehicle's oil circuit. The command will only be executed successfully when the vehicle speed reaches below 20KM/H.
2	Restore oil circuit	RELAY,0#	Restoring the vehicle oil circuit

5.4.Common alarm commands

SN	Command function	Command format	Remark
1	Vibration alarm	SENALM,[A][,M]#	A=ON/OFF, default is OFF; M=0/1/2/3,Alarm mode: 0: only GPRS 1:SMS+GPRS, 2:GPRS+SMS+PHONE 3:GPRS+PHONE The default alarm mode is 1.
2	Power off alarm	POWERALM,[A],[M]#	Please turn on the device power switch in advance. A=ON/OFF, the default is ON; M=0/1/2/3,Alarm mode : 0 : only GPRS, 1: SMS+GPRS, 2: GPRS+SMS+PHONE, 3:GPRS+PHONE The default alarm mode is 0.
3	ACC alarm	ACCALM,[A],[B],[M]# ACCALM,OFF#	A=ON/OFF, default is OFF; B=1, ACC ON alarm; B=2, ACC OFF alarm; B=3, ACC ON and ACC OFF alarm; The default alarm mode is 3 M=0/1/2/3,Alarm mode : 0 : only GPRS 1: SMS+GPRS, 2: GPRS+SMS+PHONE, 3:GPRS+PHONE The default alarm mode is 0.

6. Troubleshooting

If you feel something is wrong with your device while operating, see the following questions and solutions. If the problem still cannot be solved, please contact the seller or service provider.

Common Problem	Cause	Solution
Poor signal reception	When devices are used in areas with poor reception, such as near tall buildings or basements, radio waves cannot be transmitted effectively	Use the device in a location with good signal
Unable to connect to the network	The SIM card is not installed properly	Check the SIM card
	Dirt on the metal surface of the SIM card	Wipe with a clean cloth
	Invalid SIM card	Contact your Internet Service Provider
	Out of GSM service area	Please move to ISP service area
	Weak signal	Please move to a strong signal and try again
Shutdown	Please confirm whether the device is switched on	Turn on the device battery switch
	Please check whether the SIM is installed properly	Please install the SIM card properly
	Poor contact	Check that the plug is properly connected

7. After-sales warranty card

User information

User name		Contact number	
Address			
Product model		IMEI number	
Date of purchase		Invoice number	
Name of the seller			
Seller's address			
Seller's phone number			

*This card is the basic warranty certificate, please fill it carefully and keep it properly.

Warranty Description

Important Note: Please keep this warranty card properly, and enjoy one-year after-sales warranty with this card. If this card is lost, your terminal warranty period will be postponed to your purchase date within 30 days after the factory date of the terminal checked by our company.

Second, the scope of the warranty.

1. During the warranty period, we give free warranty if there is a problem due to the quality of the repair item itself.
2. During the warranty period, such as due to human factors, improper operation, incorrect power supply voltage caused by failure, due to the courier process dropped, damaged by their own disassembly or torn warranty strip, and natural disasters are not covered by the warranty.
3. This warranty does not apply to cases other than defects in materials, design and workmanship.
4. There is no right to extend or renew the warranty for repair or replacement under this warranty.

8. Platform tracking

Installation video

You can watch the installation video of the device and the tutorial video of using the APP on YouTube by scanning the QR code below