WhatsGPS

GPS Tracker

Model：R11

User Manual

Statement

Thank you very much for using the R11 vehicle terminal (mobile user terminal) product. Please read this manual carefully before use. Please pay attention to all the cautions and warnings mentioned in the manual. Please keep this manual properly for reference.

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1.Product Description

The R11 is a multifunctional GPS tracker with a wide range of applications. Adopts MTK6261 chip and supports GPS, COMPASS, GLONASS satellite systems. In addition to supporting satellite positioning, the equipment also supports single-base and multi-base station positioning. Rich extended functions, please refer to the following descriptions about extended functions. Integrating a self-developed hardware monitoring circuit enables the equipment to work reliably and stably for a long time, and can automatically recover when an abnormality occurs.

2. Product function

- GSM quad-band, built-in GSM/GPS antenna;
- Support all global navigation satellite systems GPS, COMPASS, GLONASS, Beidou that have been deployed and will be in operation
- Support global multi-base station and satellite positioning mode;
- Voltage input 9-90V;

● Built-in high-power surge protection circuit;
● Adopt high temperature resistant, safe and explosion-proof rechargeable lithium cobalt oxide battery;
● Built-in high-power surge protection circuit;
● Built-in hardware monitoring circuit, automatic recovery of abnormal state;
● Support remote oil circuit control;
● Support ACC detection and alarm;
● Built-in battery switching circuit, support power failure alarm;
● Built-in vibration sensor, support vibration alarm;
● Support remote upgrade;
● IP65 waterproof design;

3. Specification

Items	Specifications	Remark
Working Voltage	DC9V-90V	
Working Current	25ma @12V (Quiescent current 10mA)	Not charging
Dimension	L80mm *W28mm*H14mm	
Positioning mode	GPS+LBS+WIFI(Optional)	
Positioning error	<10 Meters	
communication network	GPRS	
GSM frequency	850/900/1800/1900MHz	
Communication way	TCP	
Temperature range	-25°C~ +75°C	
Storage temperature range	-40°C ~ +85°C	
Backup battery working time	0.5h	
Warranty period	1 Year	

4. Appearance

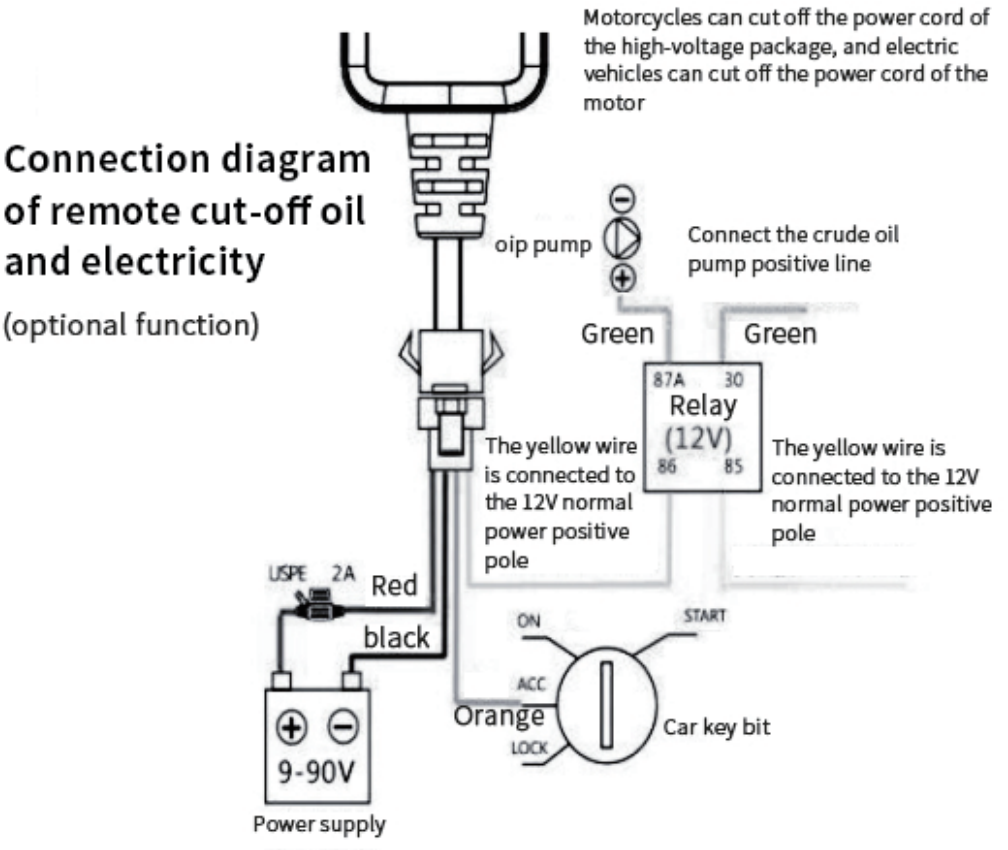
By checking the status indicator, you can understand the working condition of the device. The status of the indicator is described as follows:

LED Color	LED Status	Description
Red	Fast flash	GSM starting
	Slow flash	GPS receive signal is normal
	light	GPRS online
	Drak	No GSM signal/card/still sleep
Blue	Fast flash	GPS signal searching
	Light	GPS position
	Dark	GPS sleep/not working

5.Installation instructions

5.1. Wiring

Line No.	Specification	Color	Instruction
8	MOTOR	Yellow	Fuel control wire
9	ACC	White	ACC
10	V-	Black	12V/24V Connect to Powe of 12V/24V
11	ACC	Red	



Precautions for Relay Wiring

Pump relay wiring: the oil connectors at both ends are thin white wire (85) and thin yellow wire (86). The thin white wire (85) is connected to the vehicle's positive power supply (+12V). The thin yellow wire is connected to the device relay control wire.

Cut off the positive connection wire of the pump; then connect in series to the relay normally closed contact (green thick line 87a), and the other end to the relay COM contact (green thick line 30).

6.Description of command Instructions

6.1.Oneline Setting Command List

1	SERVER,1,<domain>,<port># E.g.:SERVER,1,gps.whatsgps.com,6801,0#	Please move to the network service provider service area
2	APN,<use_apn># E.g.:APN,internet#	Set APN
3	TIMER,T#	T:The range of T is 5-900 second The default reporting interval is T second after setting

6.2. Query command

1	PARAM#	Query device parameters
2	STATUS#	Set APN
3	WHERE#	Query latitude and longitude
4	RESET#	evice restart

6.3.Alarm mode setting and description

1	Vibration alarm	SENALM,A,M#	A=ON/OFF, turn on or turn off the alarm, the default is off M=0/1/2, alarm mode, 0: GPRS only; 1: SMS+GPRS; 2: GPRS+SMS+PHONE
2	Power off alarm	POWERALM,A,M#	A=ON/OFF, turn on or turn off the alarm, the default is off M=0/1/2, alarm mode, 0: GPRS only; 1: SMS+GPRS; 2: GPRS+SMS+PHONE
3	ACC alarm	ACCALM,A,B,M#	A=ON/OFF, turn on or turn off the alarm, the default is off B=1/2/3, 1 is ACC ON alarm, 2 is ACC OFF alarm, 3 is ACC ON + ACC OFF alarm M=0/1/2, alarm mode, 0: GPRS only; 1: SMS+GPRS; 3: GPRS+SMS+PHONE
4	Displacement alarm	MOVING,A,R,M#	A=ON/OFF, turn on or turn off the alarm, the default is off R=100-1000, moving distance, unit: meter, default is 300 M=0/1/2, alarm mode, 0: GPRS only; 1: SMS+GPRS; 3: GPRS+SMS+PHONE

5	Over speed alarm	SPEED,A,B,M#	A=ON/OFF, turn on or turn off the alarm, the default is off B=1-255 (Km/h), the overspeed threshold, the default is 100 (Km/h) M=0/1/2, alarm mode, 0: GPRS only; 1: SMS+GPRS; 3: GPRS+SMS+PHONE

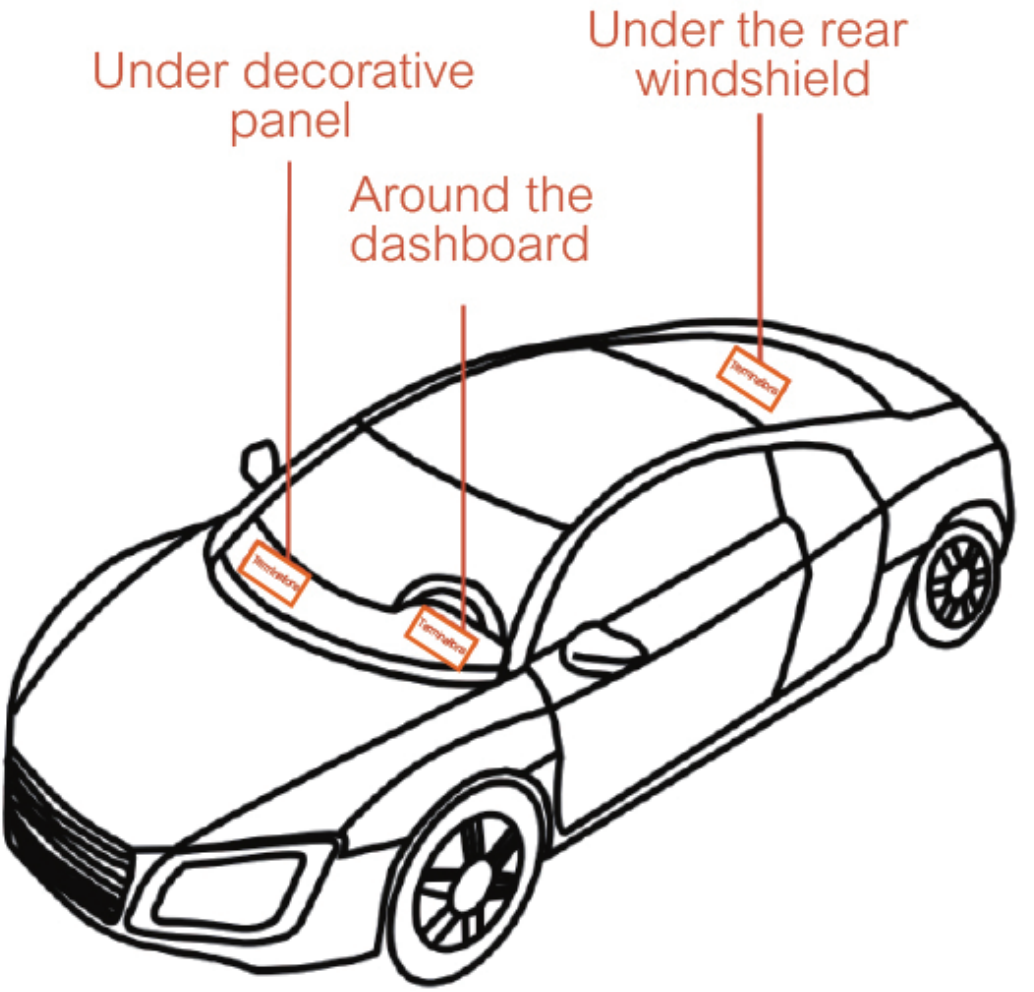
6.4.SOS and Center Number Setting

1	SOS setting	SOS,A,phone1,phone2,phone3#	The SOS number can be set to 1-3 numbers. Note: When the number already exists, using this command will clear the previously set number and replace it with a new SOS number
2	Center number setting	CENTER,A,phone number#	Add center number, only center number and SOS number can be set

6.5.Remote oil cut

1	Remote oil cut	RELAY,1#	When the car speed reaches below 20KM/H, the command will be executed successfully
2	Remote oil restore	RELAY,0#	Restore the oil circuit

7.Installation diagram



8.Trouble shooting

When operating the terminal, if you feel that the equipment is abnormal, please refer to the following problems and solutions. If the problem still cannot be solved, please contact the seller or service provider.

Common Problem	Reason	Solution
Bad Signal	When using the terminal in areas with poor signal reception, such as near high-rise buildings or basements, radio waves cannot be effectively transmitted	Use the terminal in a location with good signal
Unable to connect to the network	SIM card is not installed	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 a place with strong signal and try again

Common Problem	Reason	Solution
Unable to connect to the network	Weak signal	Please move to a place with strong signal and try again
Switch off	Please confirm whether the device is switched on	Turn on the device battery switch
	Please check if the SIM is installed	SIM卡Please install the SIM card
	Poor contact	Check if the plug is connected

Warranty card

Maintenance record	
Maintenance shop	
Sending date	
Fault description	
Maintenance situation	
IMEI number	
Maintenance person	

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