WhatsGPS

4G gps tracker

Model:S06L

User Manual

Installation instructions

1. Accessories list

Confirm whether the accessories are complete before using , including:

- S06L - 1
- Power line - 1
- Relay - 1
- Microphone - 1
- SOS line - 1
- User manual - 1

2. Installation instructions

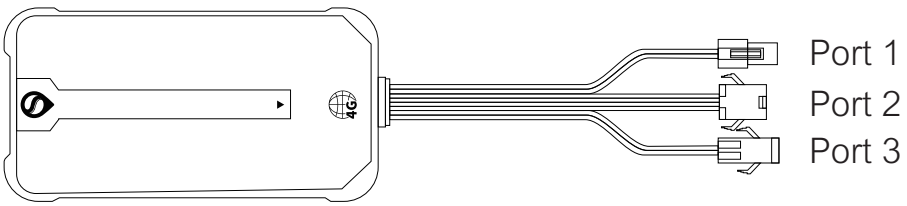
2.1 SIM card installation

Open the face shell according to the instructions in figure 1 and load the SIM card. The device USES the SIM card of standard specification.

1) Wiring instructions

- The device has three sets of interfaces, interface 1 for microphone connection, interface 2 for power supply connection, and ACC detection and relay. Interface 3 is used to connect the SOS keys. Interface 2 is a 4-core wire, which are relay wire (yellow), power positive pole (red), power negative pole (black), and ACC detection wire (green).

● Interface description



Port 1：Micphone

Port 2： Power/ACC/Relay

Port 3：SOS botton

Notes for wiring

1. The power supply range supported by the equipment is 6-30v, please use the power cord provided by the original factory. The red wire is the positive pole and the black wire is the negative pole. When installing the negative pole of the power supply, please choose separate grounding or connecting the iron.

1) ACC line (green line) is connected to the ACC switch of the vehicle, and ACC line is used for starting/flameout status detection of the vehicle.

2) The coil ends of the relay are respectively thin white line (85) and thin yellow line (86), the thin white line is connected to the positive of the automobile power supply (+12V), and the thin yellow line is connected to

the relay control line of the equipment. Cut the positive line of the oil pump and connect it to the normally closed section of the relay (coarse green line 87a) and the other end to the common end of the relay (coarse green line 30).

Note: this product is equipped with 12V relay, suitable for 12V battery car.

2. LED status indicator

By looking at the status indicator, we can know the working status of the equipment. The status of the indicator is as follows:

LED type	State of the LED	meaning
Red	Slow flash	Trying to register GSM network
	Flash	Successfully registered GSM network
	Bright	Successfully connected to the server
Blue	Slow	Not located, searching for satellite signal
	Bright	Positioning succeeded

3. Command setting instructions

1) Set up the APN

Format 1: **APN,[apnname]#**

Format 2: **APN,[apnname],[user],[password]#**

Note: the device supports automatic APN setting, and

supports automatic switching of APN in most countries. If the country or region cannot be switched automatically, it can be switched by sending SMS.

Example: APN, cmnet#

2) Time zone setting

Format: **GMT,[A],[B],[C]#**

Note: the value of A is E or W, respectively representing the eastern time zone and the western time zone. B goes from 0 to 12, which is the time zone. The value of C is 0,15,30,45 represents half time zone, and the default is 0.

Example: GMT, E, 8, 0 #

3) Upload interval setting

Format: **TIMER,[N]#**

Note: the value of N is 10-65535 in seconds, and the default escalation time interval is 10 seconds.

4) Center number setting

Format: **CENTER,A,[NUM]#**

CENTER number is set through the CENTER instruction, which is used to send relay control instructions. CENTER,D# is the instruction format for removing the CENTER number.

Example: CENTER, A, 12345678901 #

Instruction format: CENTER,D#

Delete center number instruction.

Example: CENTER, D#

5) SOS setting

Format: **SOS,A,[Num1],[Num2],[Num3]#**

Instruction: set the SOS number through the SOS instruction, the SOS number can receive the SOS alarm information, and the remote listening can be achieved by dialing the equipment number. Can set 1-3 Numbers,

Example: SOS,A,, 12345678911.

Example: SOS, A, 123456789101235679111235679 12 # set said the first, second and third number.

SOS,D,[A],[B],[C]#

Delete the format of SOS number, A, B and C are the position Numbers of SOS number respectively, from 1-3.

Example: SOS,D,1,2,3# means delete 3 SOS Numbers.

Example: SOS,D,3# means delete the third SOS number.

6) Relay control setting:

Format: **RELAY,[A]#**

Note: the values of A are 0 and 1,1 means oil break, 0 means recovery. The relay is controlled and only the

central number can send the instruction.

Example: RELAY,1# send this instruction to realize the cut-off of oil and electricity.

Example: RELAY,0# send this instruction to restore oil and electricity.

Note: in order to ensure the safety of vehicles and drivers, the device will only perform the power cut function when the speed is less than 20KM/h under the condition of effective GPS positioning.

7) Restore factory setting

Format: **FACTORY#**

This instruction reverts to factory default Settings.

8) Restart setting

Format: **RESET#**

Note: the system restart will be completed within 1 minute after the device receives the instruction.

4. Query setting

1) Parameter querying

Format: **PARAM#**

This instruction can be used to query the current parameter Settings of the device.

Return information:

IMEI: 680915040900918; (device serial number)

IMEI: 680915040900918; (IMEI number)

APN: cmnet; (current APN)

IP: 47.90.83.185:8841; (current platform address and port)

The TIMER: 20; (current upload interval)

CENTER: 123456789012; (current centre number)

TimeZone: 8-0; (current time zone)

LANG: EN. (language type)

LCWL: OFF; (local fence status)

Mode: 2; Protocol: GM; (current protocol type)

AutoSleep: DISABLE; (auto sleep function, supported by some models)

2) Status querying

Format: **STATUS#**

Description: this instruction can query the current working state of the device.

Return information:

EXT - POWER: 12.65 V. (current working voltage): 86%; (built-in battery indicator)

GPRS: NORMAL; (platform connection status, NORMAL means connected, FAILED means not connected)

The GSM Signal: H; (GSM signal value, H: high; M:; L: low;)

GPS: Fixed; (GPS positioning status indicator, Fixed: positioned, Invalid)
GPS Signal: L; (GPS signal value, H: high; M:; L: low;)
ACC: OFF; (ACC ignition status indicator, ON stands for startup status, OFF stands for flameout status)
Fuel Supply: OFF (indicating the cut-off of oil/engine, ON means the oil circuit is connected, OFF means the oil circuit is broken)

3) Software version querying

Format: **VERSION#**

This instruction returns the software version information of the device.

4) Latitude and longitude querying

Format: **WHERE#**

Description: this instruction returns the latest latitude and longitude information of the device, for example: Longitude Latitude: 23.00173:113.39463, Course: 0, speed: 0.05 Km/h, Date: 2018-05-04, Time: 21:56:19

5) Latitude and longitude link querying

Format: **URL#**

Description: returns based on the map the location of the link information, for example:
http://maps.google.com/maps? Q = 23.00153, 113.39459

Operation

4.1 Switch machine

After the device is loaded into the SIM card, it can be powered on. If the device needs to be restarted, it can be restarted after 10 seconds of power off.

4.2 View location

1) SMS Chinese address query.

2) latitude and longitude location SMS query.

3) latitude and longitude link SMS query.

4) platform mode query location.

4.3 SOS call the police

In case of emergency, press the SOS button for 3 seconds to trigger the SOS emergency alarm. The device will send an alarm message to the service platform. And send the longitude and latitude information to the service platform. The platform will send the Chinese address information analyzed by the longitude and latitude information to the device, which will send the Chinese alarm information to the SOS number and call the SOS number.

To realize SOS alarm, set SOS number in advance according to common instruction list.

4.4 Power off alarm

After the equipment is installed, a power off alarm will

be generated when the power is cut off. During the initial installation, the battery power is low and may not receive alarm information. In this case, the power needs to be on for more than 10 minutes, and the alarm can only be issued when the power is cut off after the internal battery has a certain amount of power.

4.5 Vibration alarm

The vibration alarm detection will be started only after the device sends BF# instruction.

4.6 Monitoring function

The listening function requires the use of microphone accessories and the use of voice CARDS. After setting the SOS number, long press the SOS key to dial the SOS number. Or SOS number directly dial the phone number of the device can achieve monitoring function.

4.7 Cut-off Oil/engine

According to the requirements of this manual, the equipment is equipped with relays, which can realize the function of remote power off. The remote cut-off function can be operated by SMS or by issuing instructions from the platform. SMS operation to set the center number, only the center number can be

sent instructions to operate. Please refer to command list for instruction format.

Main features

- Wireless communication mode 2G/3G/4G is optional.
- Support multiple satellite systems such as Beidou/GPS.
- Support single base station and multiple base station positioning.
- Wide voltage input 8-90V.
- Built-in high-power surge protection circuit.
- Built-in hardware monitoring circuit, the abnormal state is automatically restored.
- Support relay control.
- Support ACC detection.
- Internal microphone circuit interface for remote listening.
- Built-in battery switching circuit to support power failure alarm.
- Support for SOS functions.
- 2 LED status indicators.
- Waterproof design, waterproof rating IP65.
- Standard size SIM, optional support for SIM card.

- Built-in vibration sensor to support vibration alarm.
- Built-in light detection circuit to support the removal of alarms.
- Support remote upgrade.
- Support user protocol customization.

Specifications

1. The GSM/GPRS specification

- support band: 850 / GSM GSM900 / DCS1800 / PCS1900
- antenna types: built-in antenna
- GPRS level：Class12
- Communication types: TCP/UDP

2. GPS specifications

- Chip specification: TD1030
- F requency :BG96 4G LTE Cat.M1/ NB1/ EGPRS
- Antenna size: 25x25x4mm
- Supported satellite systems: GPS, GLONASS, Beidou
- Built-in independent low noise amplifier circuit.
- Positioning accuracy: about 5 meters (outdoor open environment)
- Cold start positioning time: about 30 seconds

- Hot start positioning time: 1 second
- Support A-GNSS assisted positioning.

3. Power system

- Support input voltage range: 8-90V
- Average working current: less than 30mA (when 12V is supplied).
- Built-in battery switching circuit supports power-off alarm function.
- Battery specifications: 100mAh high temperature polymer battery.
- Support 1500W surge protection.
- Built-in watchdog independent hardware circuit, automatic recovery when the machine crashes or the system is abnormal, and the equipment is stable and reliable all the time.

4. Extended functions

- Support engine start/stop detection (ACC detection).
- Support relay control to realize remote power off function.
- Connect to the pickup via the microphone interface to support remote listening.
- Support for SOS functions.
- Support UART communication interface

expansion, can be connected to external devices.

- Built-in vibration sensor to support vibration alarm.
- Remove the alarm and remove the alarm based on the light detection.

5. Device specifications

- Operating temperature: -20 oC to +70 oC
- Storage temperature: -40oC to +85oC
- Working humidity: 20%-80%

6. Environmental parameters

- Product size: 84x42x13.6mm
- Weight: about 80 grams

Troubleshooting

1. The terminal has been unable to connect to the background server after the first installation. The background display is not online.

1) check whether the main power supply wiring is correct, pay attention not to connect to the internal control line of the car;

2) check whether the SIM is installed correctly, please refer to the installation instructions;

3) check whether the SIM card has opened GPRS service;

4) check whether the parameters are correct through PARAM# instruction;

5) check whether the APN configuration is correct;

6) check whether the vehicle is in the area covered by mobile signal;

7) power on to check the status of LED indicator, both lights are normally on when the connection is normal;

2. The connection platform of the device is normal, but the satellite positioning is abnormal. In this case, please check:

1) please ensure that the equipment is outdoors;

2) check whether there is interference source or signal shield around;

3) check the installation position of the equipment, and make the GPS antenna face outwards, not towards the metal surface or wires;

4) the GPS signal will be weakened when surrounding tall buildings block it. Please drive to a place with open sky to locate it.

Warranty card

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

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