

尺寸: 126\*80mm 材质: 105克铜版纸 风琴折

### 1. Start Guide

#### 1.1 Packaging

- GPS tracker
- Power cable
- Audio cable
- SOS cable
- MIC
- Relay
- User manual

#### 1.2 Main Functions

- Real-time GPS-AGPS tracking
- Track by time interval or distance
- Remotely fuel/power cut-off
- Listen-in
- TTL
- Instant alerts for vibration, overspeed, etc.
- External power supply cut-off alarm
- Two-way talk
- Door status detection
- Multiple analog & digital I/Os
- Battery charging protection

### 1.3 Specifications

Frequency	GSM 850/900/1800/1900MHz
GPRS	Class 12, TCP/IP
Operating Voltage	3-36VDC / <350mA
Location Time	Cold Start: <35s
Storage	32M+32M
Battery	450mAh
Location Accuracy	<10 meters
Operating Temperature	+20°C ~ +70°C
Dimension	80.8 (L) * 55.8 (W) * 23.4 (H) mm
Weight	95g

### 2. My Device

#### 2.1 Appearance

### 2.2 LED indicators

GPS LED Indicator - Blue		
●	0.1s ON & 0.1s OFF	Searching GPS signal
●	Steady on	GPS is fixed
●	OFF	Sleep or not work

  

GSM LED Indicator - Green		
●	0.1s ON & 0.1s OFF	GSM initializing
●	0.1s ON & 2s OFF	Receive GSM signal normally
●	Steady on	Connected to GPRS network
●	OFF	No GSM signal

  

Power Status - Red		
●	0.1s ON & 0.1s OFF	Low battery
●	2s ON & 2s OFF	Full charged
●	0.1s ON & 2s OFF	Normal operating
●	Steady on	Device is charging
●	OFF	Low battery/Power off

  

●	Flash in a loop	Device is in defense status
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### 3. Wire Connection

#### 3.1 Wire Definition

Line	Color	Description	Definition
1	Black	MIC	SPK 3.5mm
2	White	GND	Ground
3	Black	SWDC_OUT	ControlBle
4	Black	TX	Transmit data
5	Black	RX	Receive data
6	Green	IN1	Configurable positive input/negative input
7	White & yellow	OUT 1-	Negative output
8	White & red	OUT 2+	ControlBle positive output (power voltage), >=500mA current
9	Yellow	Relay	Fuel/Power cutoff
10	Black	SOS-	SOS (Negative)
11	White	SOS+	SOS (Positive)
12	Purple	ADC	Detect 0.3-30V voltage
13	Orange	ACC	ACC
14	Black	GND	Ground
15	Red	PW+	Power: 9-36V

### 3.2 Wiring diagram

Notice: Purple line (ADC) of terminal connects to analog signals line, like voltage of external device, analog temperature sensor, fuel sensor. Voltage detected by analog signal ranges from 0-30Vdc.

### Optional

### Wiring Instruction

- The standard power supply ranges from 9V to 36VDC. Please use the power cord manufactured by the original factory. Red line means positive side while black line means negative side. During installation, negative side should connect to the ground, do not connect with other ground wires at the same time.
- ACC line (orange) connects to vehicle's ACC switch, detecting ignition on and off.
- Device's oil and electricity control line (yellow) connects to relay's 85 (thin yellow line of relay socket)

#### Relay wiring instruction

Relay wiring way of oil pump open circuit. On each end of the wire is thin white line (85) and thin yellow line (86). Thin white line (85) connects to the positive side of battery (12V) while thin yellow line (86) connects to the device relay control. There is an oil pump in the vehicle. Cut off the positive line. The positive side of oil pump connects to the downstream of relay (thick green line 87a), and the other side connects to relay's common/green thick 30).

#### Notice

12V relay is standard. The device is suitable for vehicles with 12V battery. If the vehicle has 24V battery, then 24V relay is needed.

- To monitor analog signals, the purple line (ADC) of extended port should be connected to the analog line.
- To check status of car door, orange line (IN1) should be connected to where between the door light and door switch (See the diagram).
- To find car remotely, please connect the yellow line (OUT1) of extended port to external relay.

### 3.3 Device Installation

Note: The device should face up to the sky. Metal thermal barrier or heating layer of the windshield affects the signal. Please change installation places to receive better signal.

### 4. Operation of device

#### Power on/Power off

**Power on:** Once you insert a valid SIM card and connect all the wires, turn on the device. Power LED will flash first. During signal searching process, GSM LED and GPS (blue) LED will flash. Once Blue GPS LED keeps steadily ON, it means the device has been located and it starts to work.

**Power off:** Just toggle off the power switch.

Note: When device is connected with external power, please turn on the battery switch. The battery will then connect with the device circuits and its built-in battery will be charged. If battery is OFF, battery can't be charged. The device will be power off if no external power supply.

### 5. Main Functions

#### 5.1 SOS

In emergent case, press SOS for 3 seconds to activate SOS alarm. Then the device will send SOS SMS to preset SOS numbers and then dial the numbers in a loop for 3 times until the call is picked up. Alarm message will also send to platform. (See command list 7-9)

#### 5.2 Power cut-off alarm

When the electricity supply of device is cut off, it will activate cut-off alarm.

#### 5.3 Low battery alarm

When battery is low, the device will activate low battery alarm. Device will send alert through SMS and to the platform.

#### 5.4 Vibration alarm (default OFF)

When vehicle vibrates for several times, the vibration alarm will be triggered. If ignition keeps OFF for 3 minutes (ACC OFF), the device will send vibration alarm message immediately. (See command list 7-13)

#### 5.5 Voice monitoring

1. When MIC is connected while speaker is not, use pre-set SOS number to dial the device, after 10 seconds, device enters into two-way talk mode.  
2. SIM card of device must have caller ID service.

### 5.6 Two-way communication

To activate this function, ensure that both MIC and speaker are connected well. Use pre-set SOS number to dial the device, after 10 seconds, device enters into two-way talk mode.

### 5.7 Displacement alarm (default OFF)

Device will send movement alarm when vehicle moves out the pre-set distance (when ACC is off and GPS is fixed).

### 5.8 Oil/Electricity cut-off

When vehicle is stolen, oil/electricity cut-off command can be sent by platform, APP or SMS.

Notice: 1. Make sure ACC is correctly connected. 2. When ACC is OFF, command will be executed immediately. 3. When ACC is ON, but GPS is not fixed, command will be postponed. 4. When ACC is ON, GPS is fixed, command will be executed when vehicle speed is less than 20km/h.

If you want to cut off/restore oil by SMS command, you have to set a center number firstly. Only the center number can send the cut off/restore oil command to the device. (See command list 7-15)

Notice: 1. Only the SOS number can be used to set center number. 2. Only the SOS number can be used to delete center number. 3. There is only one center number can be set.

### 5.9 Restore oil/electricity

When alarm is all-clear, you can send restore oil/electricity command by platform, APP or SMS and restore vehicle power. (See command list 7-16)

### 5.10 Restart device

If GPRS is abnormal (device is offline), user can send SMS command RESET to restart the device. Device will reboot after 20 seconds after receiving the command. (See command list 7-17)

### 5.11 Door detection

The device is able to detect door status. It uploads car status to platform and APP timely. Negative triggering is default. When car door's status is negative triggering, there is no need to set. Instead, if car door status is positive triggering, the triggering way has to be modified. (Command: DOOR\_1#). See 3.2 diagram-1 for wiring way. (See command list 7-18)

Notice: Negative triggering (default): when door is open, signal level of door is DV; when door is closed, signal level of door is power voltage. Positive triggering: when door is open, signal level of door is power voltage; when door is closed, signal level of door is DV.

### 5.12 Analog signal

The device can measure car battery's voltage and upload it to platform/APP in fixed time based on your needs. Purple line (ADC) of device extended port can receive analog signal. Like voltage of external device, analog temperature sensor and fuel sensor. Voltage range of analog input is 0-30Vdc. See 3.2 diagram for wiring way. (See command list 7-19)

### 5.13 Lithium battery charging protection

Built-in battery won't be charged when the temperature is over 50°C or less than -20°. As soon as the temperature is lower than 48°C or above +18°, battery charging will be restored.

### 5.14 Controllable output

The device supports high/low level output, which could be configured by commands based on need.

### 6. Platform Operation

Get registered on the designated service platform by authorized dealer, then you can start the tracking service and settings.

#### 6.1 APN & Server setting

To ensure normal network operation, please confirm your APN and server setting before login.

In most countries, APN could be automatically adapted to local mobile operators. If not, please send SMS to set the APN. If username and password is required for APN, please add it into the command. (See command list 7-7)

#### 6.2 Login service platform

Please login the designated service platform to set and operate the device.

#### 6.3 Download APP

Please download and install the APP in designated website, APP store or Google Play store.

### 7. Common Command List

Edit SMS command in the right column to the device SIM number to achieve respective function as below:

1	Device status	STATUS#
2	Device coordinate	WHERE#
3	Location URL	URL#
4	Check version	VERSION#
5	Network setting	GPRSSET#
6	Check parameter	PARAM#
7	APN setting	1. APN: apnname# E.g. APN: internet# 2. APN: apnname, user: userpwd# E.g. APN: internet, CLIENTE: AMENA#
8	Server setting	SERVER: mode, domain IP, port, # E.g. SERVER: 1, www.yppal.com, 8011, 0# mode: 1 means set with domain name mode 0 means set with ip address
9	SOS setting	1. Add SOS number: SOS: A, number 1, number 2, number 3# 2. Delete subjected sequence of SOS number: SOS: D, number sequence 1, number sequence 2, number sequence 3# 3. Delete the SOS number: SOS: D, phone number# 4. Query SOS number: SOS#: TIMER: T1, T2# T1=5-18000 seconds; ACC ON upload interval; default value: 10 T2=5-18000 seconds; ACC OFF upload interval; default value: 10 (when GPS is not sleep)
10	GPS data upload time interval	FIND#

### 8. Trouble shooting

If you are having trouble with your device, try these troubleshooting procedures before contacting a service professional.

Problems	Causes	Solutions
Poor signal	The signal waves unable to transmit when use the GPS tracker in the places that have poor signal reception, such as tall building around or basement.	Using the GPS tracker in the places that have good signal condition.
Unable to boot	Low battery	Charge the device battery
Unable to connect to the network	Poor signal	Using the GPS tracker in the places that have good signal condition.
Unable to locate	Signal shielded or Poor signal	Change the installation place
No power off alarm	Built-in battery is off	Turn it on
Fail to start the car	Power cutoff / ACC abnormal	Restore power/Check ACC
Car stops driving	Abnormal power supply	Connect the device negative electrode to constant power
Offline/Indicators off	Abnormal power supply/Indicators sleep	Check power supply/Press side key to activate indicators
No update of vehicle's location	No GPS positioning	Test the device again/ Change installation place

### Warranty instructions and service

- The warranty is valid only when the warranty card is properly completed, and upon presentation of the proof of purchase consisting of original invoice indicating the date of purchase, model and serial No. of the product. We reserve the right to refuse warranty if this information has been removed or changed after the original purchase of the product from the dealer.
- Our obligations are limited to repair of the defect or replacement of the defective part or at its discretion replacement of the product itself.
- Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been attempted by any unauthorized service centre.
- Repair or replacement under the terms of this warranty does not provide right to extension or renewal of the warranty period.
- The warranty is not applicable to cases other than defects in material, design and workmanship.

#### Maintenance Record

Date	Serviced by
Product Model	
IMEI Number	
Fault Descriptions	
Comments	

### FCC Warning

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:  
-Reorient or relocate the receiving antenna.  
-Increase the separation between the equipment and receiver.  
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.  
-Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

### VEHICLE GPS TRACKER

#### User Manual (Version 1.6)

This user manual has been specially designed to guide you through the functions and features of your GPS vehicle tracker.