1.Start Guide

1.1 Packaging

- GPS tracker

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

1.2 Main Functions

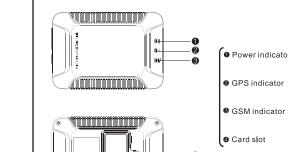
- Real-time GPS+AGPS tracking
- Track by time interval or distance • Remotely fuel/power cut-off
- Listen-in
- TTL
- Instant alerts for vibration, overspeed, etc.
- External power supply cut-off alarm
- ◆ Two-way talk Door status detection
- Multiple analog & digital I/Os
- Battery charging protection

1.3 Specifications

Frequency	GSM 850/900/1800/1900MHz
GPRS	Class 12, TCP/IP
Operating Voltage	9-36VDC / <300mA
Location Time	Cold Start: <35s
Location Time	Hot Start : <2s
Storage	32Mb+32Mb
Battery	450mAh
Location Accuracy	<10 meters
Operating Temperature	-20°C ~ +70°C
Dimension	80.9 (L) ×55.8 (W) ×23.4 (H) mm
Weight	95g

2.My Device

2.1 Appearance



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

●- 0.1s ON & 0.1s OFF GSM initializing		GSM initializing
•-00	0.1s ON & 2s OFF	Receive GSM signal normally
•	Steady on	Connected to GPRS network
0	OFF	No GSM signal

	●● = UXD	2s ON & 2s OFF	Full charged	
	- ○○	0.1s ON & 2s OFF	Normal operating	
•		Steady on	Device is charging	
	0	OFF	Low battery/Power off	

2.2 LED indicators

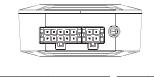
GPS LED Indicator - Blue				
•-0	0.1s ON & 0.1s OFF	Searching GPS signal		
•	Steady on	GPS is fixed		
\circ	OFF	Sleep or not work		

●-○	0.1s ON & 0.1s OFF	GSM initializing	
•-00	0.1s ON & 2s OFF	Receive GSM signal no	
•	Steady on	Connected to GPRS ne	
0	OFF	No GSM signal	

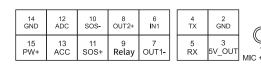
•-○	0.1s ON & 0.1s OFF	Low battery	
•• - 00	2s ON & 2s OFF	Full charged	
•-00	0.1s ON & 2s OFF	Normal operating	
•	Steady on	Device is charging	
0	OFF	Low battery/Power off	

3. Wire Connection

3.1 Wire Definition



GND	١.	ADC	sos-	OUT2	+	IN1	TX	GND	
15 PW+		13 ACC	11 SOS+	9 Rela	у	7 OUT1-	5 RX	3 5V_OUT	мі
Line		Color	Descrip	otion			Defi	nition	
-1			MICIO	PDIZ	2	Emm			

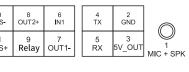


Line	Color	Description	Definition
1		MIC + SPK	3.5mm
2		GND	Ground
3		5VDC_OUT	Controllable
4		TX	Transmit data
5		RX	Receive data
6	Green	IN1	Configurable positive input/neg input
7	White & yellow	OUT 1-	Negative output
	White &		Controllable positive output (nov

(default OFF)

15 Set center number

17 Restart



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1		MIC + SPK	3.5mm
2		GND	Ground
3		5VDC_OUT	Controllable
4		TX	Transmit data
5		RX	Receive data
6	Green	IN1	Configurable positive input/negat input
7	White & yellow	OLIT 1 - Negative guitaut	
8	White &	OUT2+	Controllable positive output (power

GPS data upload distance interval D=0、50~10000 meter; Distance interval; default value: 300, unit: meter;

Delayed defense setting

DEFENSE,A#

A:1~60 minutes, set delayed defense, default value: 10 minutes

default value : 10 minutes

unit: meter
M=0-2; Alert way
0:GPRS, 1:SMS+GPRS;
2: GPRS+SMS+CALL
E.g. MOVING,ON,200,2#

Delete center number: CEN

Default value : 0 E.g. RELAY,1#

A=0/1 0= restore petrol; 1=cut off petrol

Upload analog data: ADT,ON.

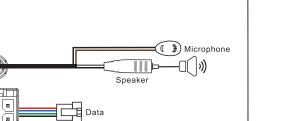
Device restart 20 seconds after receiving

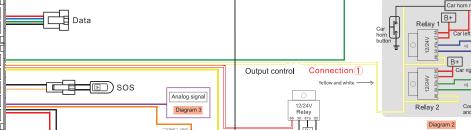
T: upload interval; scope: 5~3600(second)

R=100~1000; Displacement radius,

Notice: Purple line (ADC) of terminal connects to analog signals line

Optional 3.2 Wiring diagram





Wiring Instruction

- 1. The standard power supply ranges from 9V to 36VDC. Please use the power cord manufactured by the original factory. Red line mea positive side while black line means negative side. During installation, negative side should connect to the ground, do not
- onnect with other ground wires at the same time. 2.ACC line (orange) connects to vehicle's ACC switch, detecting ignition on and off.

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 close-end of relay. (Thick green line 87a), and the other side connects to relay's

12V relay is standard. The device is suitable for vehicles with 12V

- 4.To monitor analog signals, the purple line (ADC) of extended port should be connected to the analog line.
- to where between the door light and door switch (See the diagram).

3.3 Device Installation

- . Device's oil and electricity control line (yellow) connects to relay's 86 (thin yellow line of relay socket)

- 5.To check status of car door, green line (IN1) should be connected
- 6.To find car remotely, please connect the yellow line (OUT1) of

Metal thermal barrier or heating layer of the windshield affects the

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.

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 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-of

5.3 Low battery alarm

When battery is low, the device will activate low battery alarm

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

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 monitoring mode automatically. The caller can hear the voice inside

- 1. Pre-set SOS number is necessary. Non-SOS number cannot activate this function 2.SIM card of device must have caller ID sevice.

5.6 Two-way communication

To activate this function, ensure that both MIC and speaker are connected well. Jse 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 preset distance (when ACC is off and GPS is fixed).

5.8 Oil/Electricity cut-off

vehicle speed is less than 20km/h.

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

I.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

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)

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

5.11 Door detection

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)

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 nodified. (Command:DOOR,1#). See 3.2 diagram-1 for wiring way.

Negative triggering (default); when door is open, signal level of door is OV; when door is closed, signal level of door is power voltage. Positive triggering: when door is open, signal level of door is powe voltage; when door is closed, signal level of door is 0V.

5.12 Analog signal

(See command list 7-18)

The device can measure car battery's voltage and upload it to of device extended port can receive analog signal, like voltage o 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

The device supports high/low level output, which could be

Get registered on the designated service platform by authorized

Built-in battery won't be charged when the temperature is over 50 ℃ 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

6.Platform Operation

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

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

Confirm the server address and setting with distributors. If server is ncorrect, please send SMS to change.(See command list 7-8)

6.2 Login service platform

6.3 Download APP

Please login the designated sevice platform to set and operate the

Please download and install the APP in designated website, APP

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,pwd# E.g: APN,internet,CLIENTE,AMENA
8	Server setting	SERVER, mode, domain/IP,port,0# E.g. SERVER,1,www.ydpat.com,8011 SERVER,0,211.154.135.113,801 mode1 means set with domain name mode 0 means set with ip address
0	SOS setting	1. Add SOS number: SOS, A, number 1, number 2, number 2. Delete subjected sequence of SOS number: SOS, D, number sequence 1, number sequence 2, number sequen E.g. SOS, D, 1, 2, 3# 3. Delete the SOS number: SOS, D, phone number# 4. Query SOS number: SOS#
10	GPS data upload time interval	TIMER.T1,T2# T1=5~18000 seconds; ACC ON uplo interval; default value: 10 T2=5~18000 seconds; ACC OFF upl interval; default value: 10(when GPS not sleen)

1	Device status	STATUS#	
2	Device coordinate	WHERE# URL#	
3	Location 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,pwd# E.g. APN,internet,CLIENTE,AMENA#	
8	Server setting	SERVER,mode,domain/IP,port,0# E.g. SERVER,1,www.ydpat.com,8011,0# SERVER,0,211.154.135.113,8011,0# mode1 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 E.g. SOS,D,1,2,3# 3. Delete the SOS number : SOS,D,phone number# 4. Query SOS number : SOS#	
10	GPS data upload time interval	TIMER,T1,T2# T1=5~1800 seconds; ACC ON upload interval; default value: 10 T2=5~18000 seconds; ACC OFF upload interval; default value: 10(when GPS is not sleen)	

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# 8 E.g.; APN,internet# 2. APN,apnname,user,pwd# E.g.; APN,internet, CLIENTE, AMENA# SERVER, node, domain/IP, port, 0# E.g. SERVER, 1, www.ydpat.com,8011, 0# SERVER, 0.211.154.135.113,8011,0
3 Location 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,pwd# E.g: APN,internet,CLIENTE,AMENA# SERVER,mode,domain/IP,port,0# E.g. SERVER,1,www.ydpat.com,8011,0#
5 Network setting GPRSSET# 6 Check parameter PARAM# 7 APN setting 1. APN.apnname# E.g: APN,internet# 2. APN.apnname,user,pwd# E.g: APN,internet, CLIENTE, AMENA# SERVER, mode, domain/IP, port, 0# E.g. SERVER, 1, www.ydpat.com, 8011, 0#
6 Check parameter PARAM# 7 APN setting 1. APN,apnname# E.g: APN,internet# 2. APN,apnname,user,pwd# E.g: APN,internet, CLIENTE,AMENA# SERVER,mode,domain/IP,port,0# E.g. SERVER,1,www.ydpat.com,8011,0#
7 APN setting 1. APN,apnname# E.g: APN,internet# 2. APN,apnname,user,pwd# E.g: APN,internet, CLIENTE,AMENA# SERVER,mode,domain/IP,port,0# E.g. SERVER,1,www.ydpat.com,8011,0#
7 APN setting E.g: APN,internet# 2. APN,apnname,user,pwd# E.g: APN,internet,CLIENTE,AMENA# SERVER,mode,domain/IP,port,0# E.g. SERVER,1,www.ydpat.com,8011,0#
E.g. SERVER,1,www.ydpat.com,8011,0#
8 Server setting mode 1 means set with domain name mode 0 means set with ip address
9 SOS setting 1. Add SOS number: SOS,A,number1,number2,number3# 2. Delete subjected sequence of SOS number: SOS,D,number sequence 1, number sequence e.g. SOS,D,1,2,3# 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)

8. Trouble shooting

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

Problems Causes Solutions

ı	Flobiellis	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 sign 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 sign condition.
	Unable to locate	Signal shielded or Poor signal	Change the installation pla
	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 negati electrode to constant power
	Offline/ Indicators off	Abnormal power supply/Indicators sleep	Check power supply/Press side key to activate indicat
	No update of vehicle's location	No GPS positioning	Test the device again/ Change installation place
ı			

Warranty instructions and service

B+ Door light

. 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

- nurchase of the product from the dealer 2. Our obligations are limited to repair of the defect or replacement the defective part or at its discretion replacement of the product
- 3. 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. 4. Repair or replacement under the terms of this warranty does not
- provide right to extension or renewal of the warranty period. 5. The warranty is not applicable to cases other than defects in material, design and workmanship.

IMEI Number

Comments

Serviced by Product Model

Maintenance Record

FCC Radiation Exposure Statement:

FCC Warning

relimitssetforthforanuncontrolledenvironment. This equipment should

Information to Users

ccordingtotheFCCPart15.19,15.21,and15.105rules,forthisEUT,the nstructionsoroperationmanualfurnishedtheusershallincludethefollowingo similarstatement,placedinaprominentlocationinthetextofthemanual:

ollowingtwoconditions:

anvinterference received, including interference that may cause undesire

digitaldevice, pursuant to part 15 of the FCCRules. The selimits are designed t

ncreasetheseparationbetweentheequipmentandreceiver

VEHICLE GPS TRACKER

(Version 1.7)

User Manual



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