

To ensure quickly and correctly use, please read this manual carefully before using. Any changes to the product appearance, color or accessories are without notice.

1. Product Features

1.1 Main Functions

- Real-time tracking
- ACC detection
- Geo-fence
- Power off alert
- Movement alert
- Intelligent power saving
- Vibration alert
- Remotely control electricity/petrol
- Low battery alert

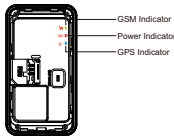
Notice:
The devices can only be installed in motorcycle.
Any consequences caused by illegal or improper usage are supposed to be born by the users.

1.2 Specifications

Frequency	GSM 850/900/1800/1900MHz
GPRS	Class 12, TCP/IP
Operating Voltage	3-18VDC
Location Time	Cold Start: < 35s
Location Accuracy	< 10 meters
Operating Temperature	-20℃ — +70℃
Dimension	80(L) x 43(W) x 13(H) mm
Weight	48.5g

2. Appearance

2.1 Appearance



2.2 LED indicators

GPS LED Indicator - Blue	
● ● ● ●	Blinking Searching GPS signal
● ● ● ●	Blinking slowly GPS positioned
○	OFF GPS sleep or off

GSM LED Indicator - Green	
● ● ● ●	Blinking GSM initializing
● ● ● ●	Blinking slowly GSM working/GPRS Online
●	Solid green Calling on the line
○	OFF No GSM signal or SIM card

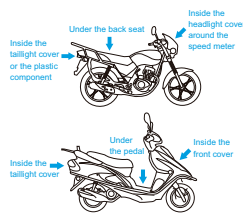
Power LED Indicator - Red	
● ● ● ●	Blinking Low battery
● ● ● ●	Blinking slowly Full charged/Working
●	Solid Red Charging process
○	OFF Low battery/Internal error

● ● ● ● ● Blink in a loop Device is arming status

3. Wiring & Installation Instructions

3.1 Installation
Assistance from professional services is recommended.

- Stay away from water
- Use double-side tape and cable tie to fix
- Face (indicators) up to sky

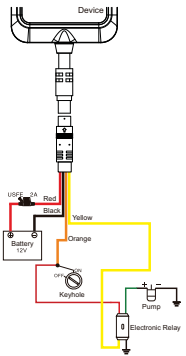


3.2 Wiring Definition

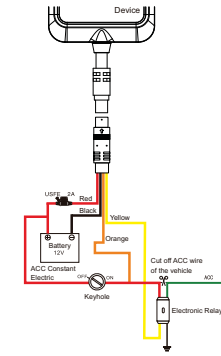
No.	Definition	Color	Illustration
1	V+	Red	Positive pole(B+)
2	V-	Black	Negative pole
3	ACC	Orange	ACC on
4	Relay	Yellow	Power cutoff (relay needed)

3.3 Wiring

1. To control the pump connection



2. To control the ACC connection



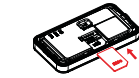
- (1) Use multi-meter to find out the battery's positive and negative side.
- (2) The way to find ACC line: Use multi-meter's red pen to touch the ACC wire while the black pen touching the ground wire. When the ignition lock switches to OFF, the voltage is 0V; when the ignition lock switches to ON, the current voltage will show up.
- (3) Power cable connects to the positive and negative pole of the battery.
- (4) ACC cable connects to motorcycle's ACC line.

4. Switch ON/OFF

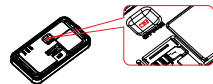
4.1 Remove the surface cover



4.2 Insert the SIM card



4.3 Toggle the battery switch to ON



4.4 Place the cover back and connect to external power that will supply power for the battery.



5. Function

5.1 Power cut-off alert

When the power supply is disconnected, it will activate cut-off alarm and alert will be sent to preset SOS number.

5.2 Low battery alarm

When battery is in low level, the device will activate low battery alarm.

5.3 Vibration alert

When vehicle vibrates for several times, the vibration alarm will be triggered. The device will send vibration alarm message immediately.

Notice:
ACC line should be connected correctly, otherwise, false alarm may arise.

Default ON. Turn ON/OFF by platform or APP.

5.4 Geo-fence alert

In platform, you can geo-fences in specific area. When the device enters or exits specific areas, it will send alarm to the platform.

5.5 Movement alert

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

Notice:
SMS alert is available only SOS preset.

Default OFF. Turn ON/OFF by platform or APP.

5.6 Petrol/Electricity cutoff

Petrol/Electricity cutoff is to disconnect the petrol power supply or ACC to stop the vehicle.
This function requires installation of an authorized relay. User can send command by APP or platform to cut off or restore power.

5.7 Battery Protection

When the motorcycle's battery voltage decreases to a certain value, the battery protection function will be activated. Device will transfer to power saving mode after low battery alert is sent. In power saving mode, the device is offline, GPS is off and vibration alert still works.

Notice:
This function requires correct connection with the ACC wire (ACC wire can't be connected to constant electric), otherwise, device can't wake up in battery protection status.

6. Platform Operation

Register on the designated service platform by authorized dealer to start the tracking service and settings.

6.1 Login service platform

Register on the designated service platform to set and operate the device.

6.2 Download APP

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



6.3 SMS command

To use SMS command, the preset SOS number is necessary. Login the designated platform to check the SMS command.

7. Appendix

7.1 Battery Safety

Battery specified by manufacturer is recommended. Maintenance or service arising from any other accessories is not guaranteed. Manufacturer assumes no responsibility for any damage caused by non-original accessories.

Metal objects may cause battery contactor short circuit. Don't bend or open battery.
Don't immerse or burn battery.
Battery charging should be done at room temperature. Charging may fail at temperature below 0 degree centigrade or above 45 degree centigrade.
Deformed, discolored, leaky or package damaged battery usage is forbidden.
Don't discompose or remake battery.

7.2 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 SIM card inserted incorrectly Dirty things exist above the SIM card	Charge the device battery Check SIM card Clean SIM card
Unable to connect to the network	Invalid SIM card Not in GSM service areas	Contact network supplier Move to service area
Unable to charge	Poor signal SIM has no access to the GPRS	Check power cable Contact network supplier to get GPRS service
Fail to locate	Always reply "Address inquiry failed"	Contact supplier

8. Common Command List

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

#	Device status	STATUS#
2	Device coordinate	WHERE#
3	Location URL	URL#
4	Check version	VERSION#
5	Network setting	CROSSSET#
6	APN setting	1. APN: {apnname#} E.g. APN:Internet 2. APN: {apnname},User:{pwd#} E.g. APN:Internet,CLIENTE.AMENAJ SERVER mode: domain/IP/port.# E.g. SERVER:1.www.yipost.com,8011.0# SERVER:0.211.154.135,113,1.8011.0# mode 0 means set with domain name mode 0 means set with IP address
7	Server 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 numbers : SOS#
8	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 numbers : SOS#
9	GPS data upload time interval	TIME_T, T# 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	DISTANCE_D# 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
12	Vibration alarm (default OFF)	1. SENALM_ON# 2. SENALM_OFF#
13	Displacement alarm setting (default OFF)	1. MOVING_ON,R,M# R=100~1000, Displacement radius, unit: meter M=0-2, Alert way GPRS: 1.SMS+GPRS ; 2. GPRS+SMS+CALL E.g. MOVING_ON,200,2# 2. MOVING_OFF#
14	Set center number	Set center number ; CENTER_A,mobile number# Delete center number: CENTER_D#
15	Power off control	RELAY_A# A=0/1 0= restore petrol, 1=cut off petrol Default value : 0 E.g. RELAY_1#
16	Restart	RESET# Device restart 20 seconds after receiving this command

FCC Evaluation Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

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.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

GPS Motorcycle Tracker

MOPLUS



User Manual V1.0