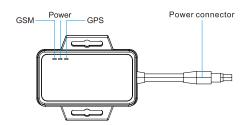
115*80mm,105克铜版纸 2020-9-4 2.1版本

Product overview



INS(Inertial Navigation System)

INS can be used as a fallback in weak or unavailable GPS signal area. e.g. underpass, tunnel, downtown.

Driver behavior analysis

Harsh acceleration aler Harsh braking alert Harsh cornering aler Sudden lane change aler Skidding alert Rollover alert Roll and pitch alert

Position tracking

GPS & LBS positioning Real-time location query

Easy self-installation

By time interval (Default Valid)

Default valid setting: TIMER,10,10#

Query current TIMER setting: TIMER#

By distance interval (Default OFF)

SOS emergency call (with 6-pin power cable)

In case of emergency case, press SOS for 3 seconds to activate SOS alert. The device will send SMS alert to preset SOS numbers and dial the numbers in a loop for three times until the call is picked up. Alarm

To add SOS number: SOS.A

To delete the SOS number: SOS,D,phone number#

Remote power/fuel cut-off (with 6-pin power cable)

APP or SMS.

3. When ACC is ON but GPS is not fixed, command will defer.

4. When ACC is ON and GPS is fixed, command will be executed when vehicle speed is less than 20km/h.

Specification

850/900/1800/1900 MHz	
GPS+INS(Inertial navigation system	
Built-in GPS ceramic antenna; GSM quad-band antenna	
GPS(blue), GSM(green), Power(red)	
450mAh/3.7V Li-Polymer battery	
9-36VDC/38mA(12VDC)	
28 hours	
1.5 hours	
-20°C ~ 70°C	
63g	
80.0 x 67.0 x 16.0mm	

Standard Parts list

a center number.

Item	Quantity	
JM-VG01U	1	
6-pin power cable	1	
Hook & loop fastener	1	
Relay	1	
Panic button	1	

To cut-off/restore the fuel by SMS command, you have to authorize

Only the preset SOS number can set/delete the center number.

Set the center number: CENTER.A.mobile number#

Delete the center number: CENTER.D#

Only one center number can be set.

S=1 means ON: S=0 means OFF

M=1 SMS+GPRS: M=0 means GPRS

SMS alert and GPRS alert on server.

Note: SPEED,OFF# Disable over-speed alert

SPEED ranges 1-255 (km/h)

E.g. SPEED,ON,20,100,1#

M means alert way

To cut-off fuel/power connection: RELAY.A#

Over-speed alert (Default OFF)

A=0/1 (0=restore fuel; 1=cut-off fuel) Default value:0

T means duration of speeding, ranges 5~600 (second)

When vehicle speed is over 100km/h for 10 seconds, you will receive

Product setup













Insert SIM and Power on

- 1. Choose the Micro SIM card with SMS and GPRS access. 2. Remove the front cover and toggle the switch to OFF.
- 3. Insert the SIM card into the card slot with its gold-plated contacts towards the Printed Circuit Board.
- 4. Toggle the battery switch to ON and return the cover.

LED indications

Power Status (Red)

Behavior Meaning		
Quick blinking	Low internal battery	
Slow blinking	Normal mode	
Solid on	The device is charging	
Off	Power off or battery error	

GNSS Status (Blue)

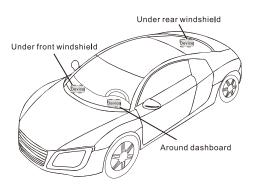
Behavior	Meaning
Blinking	GNSS synchronizing
Solid on	Positioned
Off	GNSS module is in sleep mode or not working

Wireless Network Status (Green)

Behavior	Meaning	
Quick blinking	Module initializing	
Slow blinking	Registered but no inbound acknowledgement	
Solid on	Network available	
Off	No signal received or no SIM card detected	
-		

Wiring & Installation

Color Meaning	
Red	Power+
Black	Power-
Orange	ACC by default, positive triggered
Yellow	Immobilization by default, open drain output
Orange	SOS+ by default
Black	SOS-



The standard power supply ranges from 9V to 36VDC. During installation, negative side should connect to the ground. Do not connect with other ground wires simultaneously.

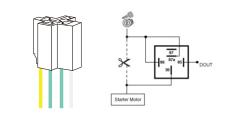
lanition wire

ACC line (orange) connects to vehicle's ACC, detecting ignition. Be sure to check if it's a real ignition wire i.e.power does not disappear after starting the engine.

Power connection

Relay's white line(85) connects to the positive side of battery(12V) while the yellow line(86) connects to the device's relay control (vellow line on power cord).

Find the fuel pump of the vehicle and cutoff its positive power line. The positive side of fuel pump connects to the green line(87a) while the side closing to starter motor connects to green line(30), as the below chart. Switch of the two green lines have the same effect.



12V relay is standard. The device is suitable for vehicles with 12V supply. If the vehicle power supply is 24V, use 24V relay

SMS configuration

Tracked by mobile phone

Send the command URL# by SMS to the device's SIM card number. The device will reply with a map link. Clink the link to have the location displayed on Google Maps on your mobile phone. If device in somewhere not positioned, device will reply "Positioning, please wait for a moment" or "Positioning fail".

Monitored by tracking platform

APN & Server setting

To ensure normal network operation, please confirm your APN and server setting before you login. In most countries, APN could be automatically adapted to local mobile operators. If not, please send SMS to set the APN.

If user name and password are required for APN, please add it into the command.

E.g.APN,internet#

E.g.APN,internet,CLENTE,AMENA#

Confirm the server address and setting with distributors. If server is incorrect, please send SMS to change.

E.g: SERVER,1, www.ydpat.com, 8011,0# SERVER,0, 211.154.135.113.8011 0#

mode=1 means set with domain name mode=0 means set with IP address

Please login the designated service platform and enjoy your

GPS upload interval setting

T1 means upload interval when ACC ON

T2 means upload interval when ACC OFF Range: 5~18000 or 0 (second); 0 means no upload

D ranges 50~10000 or 0 (meters)

Note: When user enable uploading by DISTANCE, the preset TIME

message will also be sent to the tracking platform.

Query SOS number: SOS#

When vehicle is stolen, fuel/power command can be sent by platform,

2. When ACC is OFF, command will be executed immediately.

1.Make sure ACC is correctly connected.

Driver behavior monitoring

Device support detecting eight types of driver behaviors, which are transmitted by GPRS and can be displayed on server

1. Harsh acceleration alert

The device defines harsh acceleration as occurring when the vehicle's speed increases sharply. And alert will be sent to the platform.

E.g: The vehicle's speed increase from 0KM/H to 50KM/H after 2 seconds of engine start.

2.Harsh brake alert

The device defines harsh braking as occurring when the vehicle's speed decreases sharply. And alert will be sent to the platform.

E.g: The vehicle's speed drops from 50KM/H to 10KM/H after 2 seconds of emergency braking.

3.Sharp turn alert

The device defines sharp turn as occurring when the vehicle makes

E.g: The driving speed is greater than 30KM/H, and the angle change is greater than 90 degrees

4.Harsh lane change alert

The device defines harsh lane change as occurring when the vehicle suddenly change lanes at high speed. And alert will be sent to the

E.g: The driving speed is greater than 60KM/H, and the angle change is less than 20 degrees.

5.Crash alert

If collision occurs, the device will send alert to the platform.

Slight impact and scratch will not trigger the alert.

When the vehicle rolling angle exceeds 70°, the device will send alert to the platform.

7.Loss of traction alert

When the vehicle changes the course angle for more than 3 seconds at an angular velocity greater than 20° / s, the device will sent a alert

8. Vehicle angle abnormality

When the vehicle rolling angle is greater than 20° and less than 70°, the device will send alert to the platform.

Troubleshooting

Type Use		
Unable to connect to tracking platform	Check the APN and IP settings. Check whether the data service of SIM card is enabled. Check the balance of SIM card.	
Tracker shows offline	Check whether external power is still connected Check if the vehicle entered network blind area. Check the balance of SIM card.	
Unable to locate	Make sure the top side facing upward without metallic things shielded. Make sure it's not in area with no satellite coverage.	
Location drift	In area with poor GNSS signal(tall building around or basement), drifting may happen. Check whether vibration happens around to trigger the accelerator.	
No command reply	Make sure command format is correct. Vehicle may be in network blind area. Make sure SIM card is well inserted and have	

SMS service.

Warranty instructions

1. The warranty is valid only when the warranty card is properly completed, and upon presentation of the proof of purchase and serial No.of the product. We reserve the right to refuse original purchase 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 itself.

> 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.

Maintenance Record

Date	Serviced by	
Product Model		
IMEI Number		
Fault Descriptions		
Comments		

consisting of original invoice indicating the date of purchase, model warranty if this information has been removed or changed after the

3. Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been

Date	Serviced by	
Product Model		
IMEI Number		
Fault Descriptions		
Comments		

JM-VG01U

INS-AIDED GPS VEHICLE TERMINAL Quick Start Manual