Product overview





Tracking UMTS & GSM communication

GPS & LBS positioning External GPS antenna assisted Real-time location query Track by time/distance/cornering/ignition

Anti-theft

Remote power/fuel cut-off SOS emergency call External power supply cut-off alert Geo-fence alert Towing alert

Monitoring

Ignition detection Over-speed alert Vibration alert Vehicle door status alert Driver authentication (optional) Fuel level monitoring (optional) Temperature monitoring (optional)

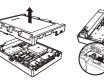
Specification

Frequency	GSM: 850/900/1800/1900MHz UMTS: 850/900/1900/2100MHz	
GNSS Type	All-in-one GNSS receiver	
Sensitivity	Cold start: <45s Warm start: <35s Hot start: <1s	
Position Accuracy (CEP50)	2.5m CEP	
Dimensions	85 mm x 65 mm x 20 mm	
Weight	92g	
Backup Battery	Li-Polymer, 500 mAh	
Operating Voltage	11V to 36V DC	
Operating Temperature	–30°C to +70°C	
Operating remperature	-30°C to +70°C for storage	
Transmit Protocol	TCP, SMS	

Product setup

Insert SIM and Power or





1 Loosen the screws, and remove the front cover 2. Insert the SIM card into the card slot with its gold-plated contacts towards the Printed Circuit Board. 3.Toggle the battery switch besides the SIM slot to power on. 4.Close the cover, and tighten the screws.

Power off

SENALM#

RESET#

DOOR,X#

Disconnect the tracker from external power. 2.Remove the cover and switch to "OFF".

LED indications Power Status (Red)

Behavior	Meaning	
Quickly blinking	Low internal battery	
On for 2s and off for 2s	Charging finished	
On for 0.1s and off for 2s	Normal mode	
Solid on	The device is charging	
Off	Power off or battery error	

GNSS Status (Blue)

Behavior

Solid on

Quickly blinking

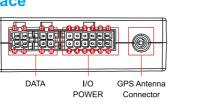
Meaning	
GNSS synchronizing	G
Positioned	

GNSS module is in sleep mode or

Wireless Network Status (Green)

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

Interface



DATA





GND	2	1	DC
GND	4	3	DIN1
DIN 3	6	5	DIN 2
OUT 1	8	7	ADC 1
GND	10	9	OUT 2
1W+5v	12	11	1W Data

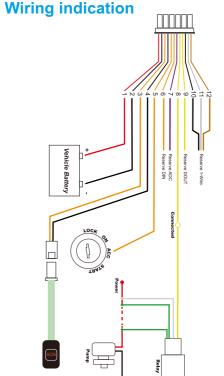
•			2000
	DC IN	Red	Supply voltage 11–36V (max. 40V). Protect device against overvoltage.
	GND	Black	Grounding wire
	DIN1	Orange	SOS by default, negative triggered.
	GND	Black	Grounding wire
	DIN2	Orange	ACC by default, positive triggered.
	DIN3 Orange		Negative triggered. Configurable. It can connect to the door signal cable to detect its status. (Most Chinese, Korean, and Japanese vehicles are negative edgetriggered.)



I/O AND POWER

GND	2	1	DC
GND	4	3	DIN1
DIN 3		5	DIN 2
OUT1	8	7	ADC 1
GND	10	9	OUT 2
1W+5v	12	11	1W Data

1	DC IN	Red	Supply voltage 11–36V (max. 40V). Protect device against overvoltage.
2	GND	Black	Grounding wire
3	D i N1	Orange	SOS by default, negative triggered.
4	GND	Black	Grounding wire
5	DIN2	Orange	ACC by default, positive triggered.
6	DIN3	Orange	Negative triggered. Configurable. It can connect to the door signal cable to detect its status. (Most Chinese, Korean, and Japanese vehicles are negative edge- triggered.)



Power connection

The standard power supply ranges from 11V to 36VDC. During installation, negative side should connect to the ground. Do not connect with other ground wires simultaneously.

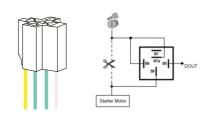
Ignition wire

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.

Relay wiring

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

Find the fuel pump of the vehicle and cut off 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. Click 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

monitoring experience.

GPS upload interval setting By time interval (Default Valid)

T1 means upload interval when ACC ON T2 means upload interval when ACC OFF Range: 5~18000 or 0 (second); 0 means no upload Default valid setting: TIMER,10,10# Query current TIMER setting: TIMER#

By distance interval (Default OFF)

D ranges 50~10000 or 0 (meters) Note: When user enable uploading by DISTANCE, the preset TIME uploading turns invalid.

SOS emergency call In emergent case, press SOS for 3 seconds to activate SOS alert.

Query SOS number: SOS#

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 message will also be sent to the tracking platform. To add SOS number: SOS.A.number1.nur To delete the SOS number: SOS,D,phone number#

Remote power/fuel cut-off

When vehicle is stolen, fuel/power command can be sent by platform, APP or SMS.

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

To cut-off/restore the fuel by SMS command, you have to authorize a center number. Set the center number: CENTER,A,mobile number#

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

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

A=0/1 (0=restore fuel; 1=cut-off fuel) Default value:0 E.g.RELAY,1#

Delete the center number: CENTER,D#

Over-speed alert (Default OFF)

S=1 means ON; S=0 means OFF T means duration of speeding, ranges 5~600 (second) SPEED ranges 1-255 (km/h) M means alert way M=1 SMS+GPRS: M=0 means GPRS E.a. SPEED.ON.20.100.1# When vehicle speed is over 100km/h for 10 seconds, you will receive SMS alert and GPRS alert on server.

Towing alert (Default OFF)

When vehicle is dragged, device could send alert. S=1 means ON; S=0 means OFF R means radius, range 100~1000 (meter) M means alert way M=1 SMS+GPRS; M=0 means GPRS Note: MOVING,OFF# Disable towing alert

Common SMS setting command

Command	Description	Remark
STATUS#	Check device's status	
VERSION#	Check firmware version	
GPRSSET#	Check device network setting	
DEFENSE,A#	Delayed defense setting	A:1-60 min, default:10min
DEFENSE#	Check the current parameters	
SENALM,S,M#	Enabled vibration alarm	S=1 means ON; S=0 means OFF M=0/1/2/3, way of alarming, 0: GPRS only, 1: SMS+GPRS, 2: GPRS+SMS+Call 3: GPRS+Call
SENALM,OFF#	Disabled vibration	

Check the alarm setting

Car door negatively/

positively trigger

Reboot

Device will reboot in 20s

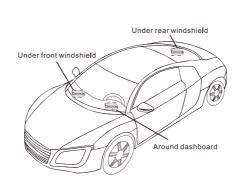
X=0, negative triggering;

X=1, positive triggering

Package & Optional accessories

Use
For data reading from peripheral accessorie

Installation recommendation



1) The device should face up to the sky. 2) Metal thermal barrier or heating layer of the windshield affects

Troubleshooting

Use

7 ADC

8 DOUT1 Yellow

12 1-W PWR Brown

13/17 DC OUT Red

14/18 GND

Purple

9 DOUT2 Yellow voltage (valid):500mA;

10 GND Black Grounding wire

Black Grounding wire

15/19 RS232-RX Blue Input for data receive through RS232

16/20 RS232-TX Green Output for data transmission through RS232

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

Make sure command format is correct.

Vehicle may be in network blind area.

Make sure SIM card is well inserted and have

Input voltage range 0-6V, high

Open drain output, immobilization

Open drain output by default.

Maximum current for output low

Maximum voltage for open drain

You can also configure it as PWM

output (output time and pulse width).

1-wire communication interface by

default. It can be configured as OUT3

It is the DC 5V output. Drain current

Output 5V/1A. It supplies power only

when device connected to power.

precision on 0.01V

by default.

Configurable.

Valid: low level (0V)

output (invalid):60V

material, design and workmanship.

Date	Serviced by	
Product Model		
IMEI Number		
Fault Descriptions		
Comments		

Warranty instructions

1. 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. 2. Our obligations are limited to repair of the defect or replacement the defective part or at its discretion replacement of the product itself. 3. Warranty repairs must be carried out by our Authorized Service

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

Centre. Warranty cover will be void, even if a repair has been

Maintenance Record

Date	Serviced by	
oduct Model		
El Number		
Fault escriptions		
Comments		

JM-VW01

3G VEHICLE TERMINAL Quick Start Manual

V2.0