

GSM/GPRS/GPS Tracker (LDW-TKV118B) User Manual **Version 1.4**



Pls read this manual carefully before attempting installation and online activation. Pictures are for indication and illustration purposes only.

Chapter I Preface

1. 1 Overview

TKV118 represents the perfect combination of GSM, GPRS and GPS technologies. It's a good tool to protect your car from thief. With fleet management platform, it can help the car rent company, logistical company, tax company etc. to improve the management efficiency a lot.

As a professional security and positioning company, we will provide you with more and better products and services. Before use, please spend several minutes reading this user's manual in order to understand operation details and obtain better services.

1.2 Function summery

Based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or GPRS.

1.1.1 Positioning and Tracking

Through the on-line Positioning Platform or the cell phone to locates target at any time, and get the working status.

1.1.2 Triggering Emergency Alarm

When emergency happened on the vehicle, you can press SOS button and the tracker will send out alarm to the authorized numbers.

1.1.3 Remote controlling oil and circuit

You can control the oil and circuit via the unit by SMS in anywhere and anytime.

1.1.4 Remote Monitoring

In anywhere and anytime, call the phone number in the unit, after it connects, you can monitor the sound around 5 meter.

1.1.5 Movement Alert

Send SMS to the unit to start the movement alert function. When the vehicle is moving, the unit will send the movement alert to all authorized numbers.

1.1.6 Over-speed Alert

Send SMS to the unit to start the movement alert function. When the vehicle is over-speed, the unit will send the

over-speed alert to all authorized numbers.

1.1.7 E-fence

Set up a geo-fence for the unit to restrict its movements within a district. The unit will send the message to all authorized numbers when it breaches the district.

1.1.8 Auto Track

You can set up auto track by SMS or on-line positioning platform.

1.1.9 Remote control

You can cut off power supply and oil supply by SMS or on-line real time tracking platform.

1.1.10 Compatible with the original anti-theft alarm

It will send SMS alarm after the original anti-theft alarm warning.

1. 1. 11 Check the value of fuel

1.3 Applications

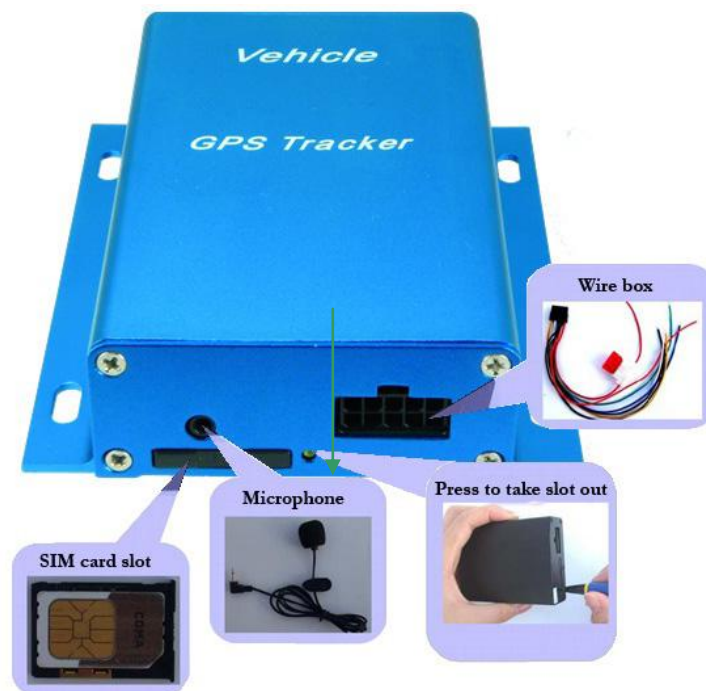
- ☐ Vehicle rental / Fleet management etc
- ☐ Online real-time tracking to Provide peace-of-mind for businessmen
- ☐ Cut oil and electricity when necessary
- ☐ Manage personnel and car to improve efficiency
- ☐ Monitor the car's fuel at any time for fleet owner

1.4 Hardware Description



1.4.1 Front face

1.4.2 Rear face



1.4.3 Technical Specifications

GSM Module	GSM850/900/1800/1900MHz
GPS Chip	MTK-TSi or SirF4 Chip
GPS Sensitivity	-159dBm
GPS Centual	L1, 1575.42MHz
GPS Accuracy	5-25m
GSM Accuracy	100-500m
Speed Accuracy	0.1m/s
Time Accuracy	Same as GPS
Warm status	1S
Cold status	38S
Highest altitude	18000M
Max speed	515 M/S
Acceleration of Gravity	< 4g

1.4.4 Others

Temperature	-20---65℃
Humidity	5%---95%
Voltage	10V—25V
Power	10V—25V

Average Power	<80MA
LED	Indicate the working condition and other conditions of GPS & GSM
External Alarm Switch	For Emergency

1.4.5 Two-tone Color LED Indicator

GREEN LED-----Indicates GPS Signal

Condition	Indication
Lights on	GPS is on
Flashing	GPS signal connected

RED LED-----Indicates GSM Signal

Condition	Indication
Flash per 7.5s	GSM is in working order
Flash per 0.1s	Calling

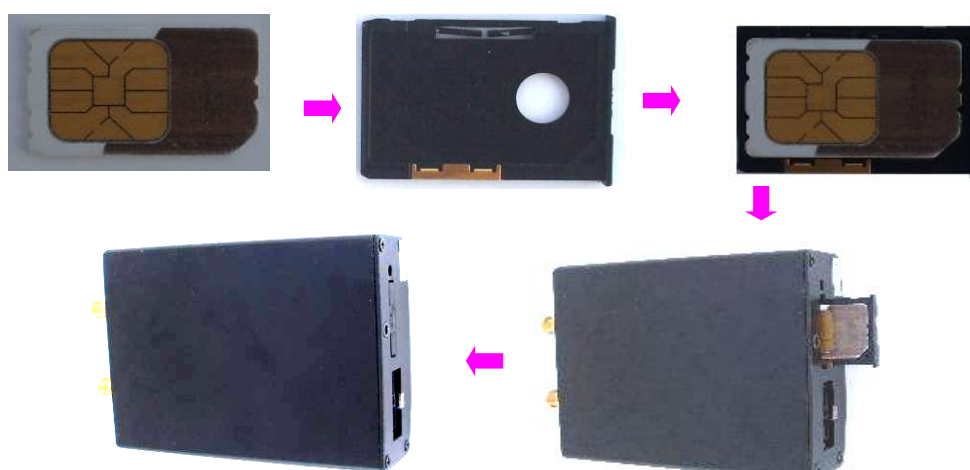
Chapter II Installation

2.1 SIM card installation

Make sure that there is no **call transfer** and **call display is on**, and **PIN code** off. The SMS message must in Text format, can't be identified for PDU format.

2.1.1 Put SIM card into card box.

Please put SIM card into card box as the following picture.

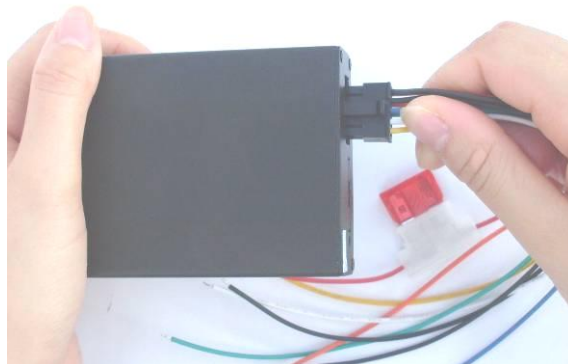


2.2 GPS Vehicle Tracker Installation

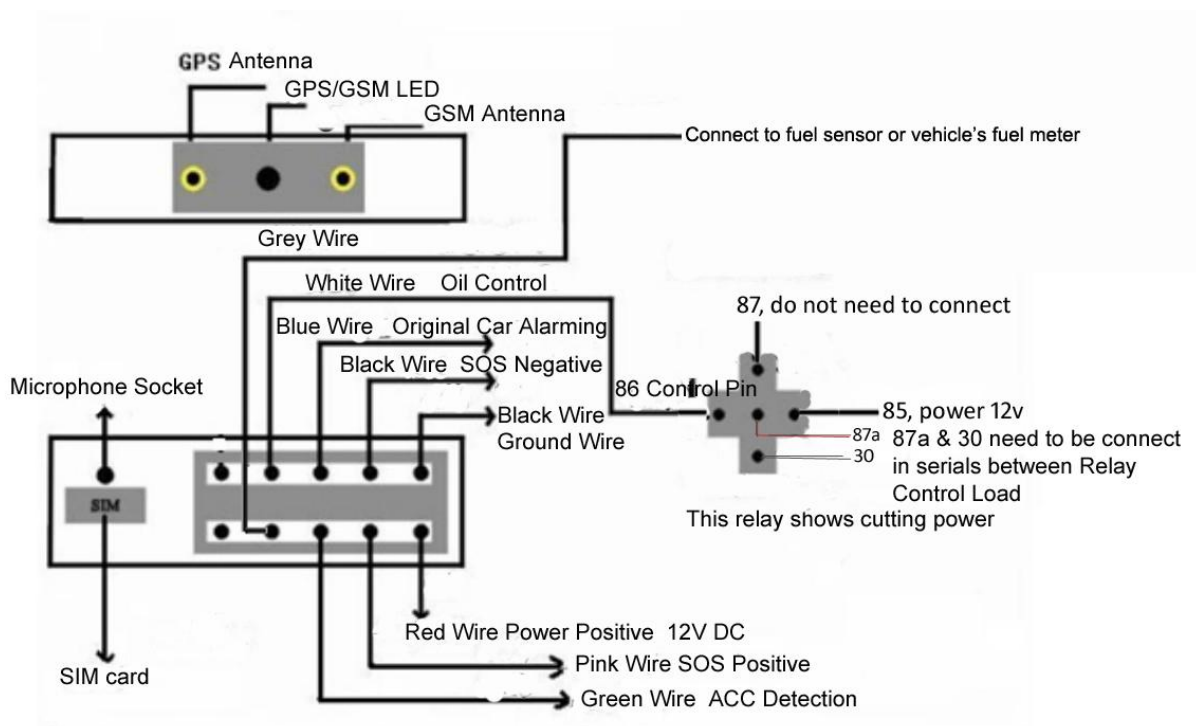
GPS/GSM/GPRS tracker should be installed by technical professional of local service centre. The user can't repair and move the tracker randomly without permission,. If users do, we don't take any responsibility and any unfortunate

damage should be compensated by himself

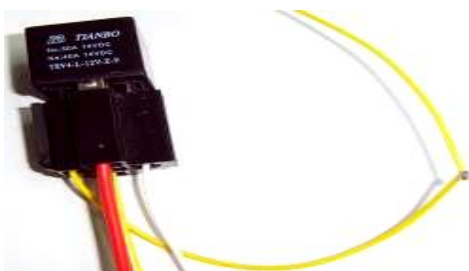
2.2.1 Install Wire Box



2.2.2 GPS Vehicle Tracker Installation

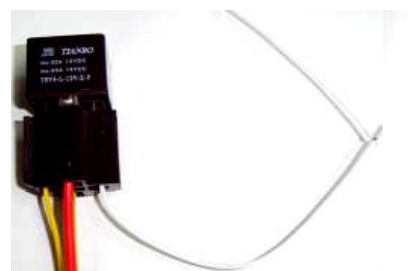


Installation steps (caution: the following installation should be made without power supply, otherwise it will be dangerous)



Wire for cutting off oil of the tracker

Yellow wire connects the relay feet 86; 85 feet to 12 V DC anode, 87 feet and 30 feet in series in the supply oil circuits.



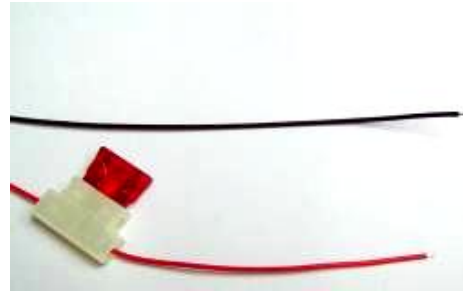
Wire for cutting off circuit of the tracker

White wire connects relay feet 86; 85 feet to 12 V DC anode, 87 feet and 30 feet are in series in the supply power circuits.



Emergency triggering alarm

The blue wire connects the anode of the alarm button, and the black wire connects the cathode of the alarm button.



Power supply line

The red wire connects 12V “+”; Black wire connects to 12V “-”

2.2.3 Installation for fuel checking

1st type: Connect to the wire of vehicle's meter

1. We should know the capacity of vehicle's tank, (Check more accurate, the oil capacity more exact)
2. Minimum need test 5 sets data,
 - A. At full tank / The voltage of fuel meter wire.
 - B. At 75% of tank / The voltage of fuel meter wire will be took automatically
 - C. At 50% of tank / The voltage of fuel meter wire will be took automatically
 - D. At 25% of tank / The voltage of fuel meter wire will be took automatically
 - E. Empty / The voltage of fuel meter wire

Put the upper data into the platform. Will see the curve chart when the vehicle start.

Detail		Close
Terminal Type	17#	Time Zone 8
Mac. ID:	886600000813	SN: 886600000813
Product NO.:	TKV118B	
SIM No.		Plate NO. Mijie
Max Fuel Voltage	.36	Min Fuel Voltage 6
		AutoFix: ☒
FuelSize	65	FuelPerHKM 10
Username	886600000813	Password 123456
Save		

(Theory: Test the fuel capacity by voltage, The fuel curve chart will fluctuate when the vehicle's tank fluctuate)

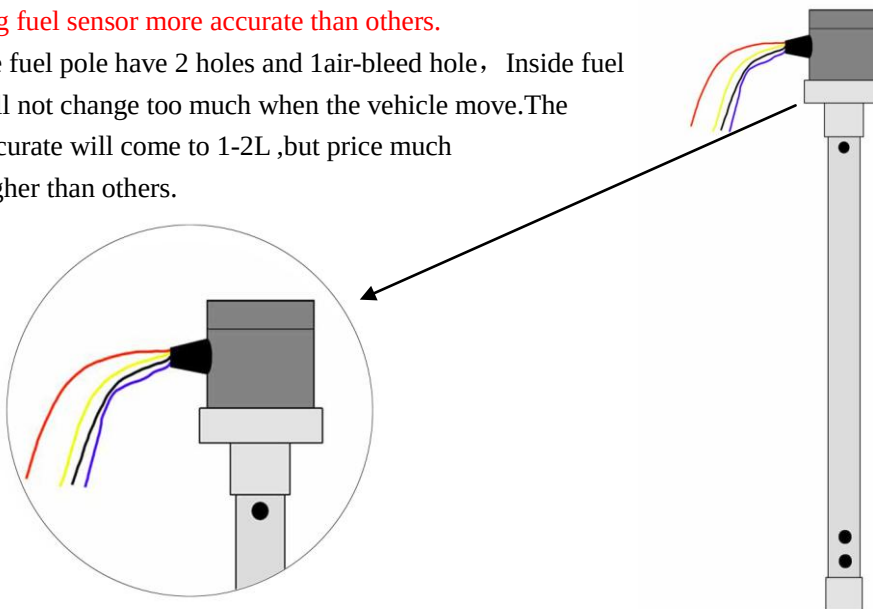
2nd type: Connect to the fuel sensor. But should make hole on the tank (The theory same as first type, Fuel sensor has 3 wires, Red and black wire connect to the power of vehicle's battery, other wire connect to the signal wire. as below picture)



(3 wires in the black wire, connect as upper way)
Use fuel sensor more accurate than connect to the wire of fuel meter.

The following fuel sensor more accurate than others.

Theory: The fuel pole have 2 holes and 1 air-bleed hole, Inside fuel Will not change too much when the vehicle move. The Accurate will come to 1-2L, but price much Higher than others.



2.3 Get starting

- Insert SIM card and connect with power supply.

- It takes 30-60S for the device to get GPS and GSM signal, then you can set command SMS.

Chapter III

3.1 SMS command format

Note: All the setup below can be only made by Center number.

Super User Setup

Set the new center number and new password by SMS through mobile phone. If the setup is successful, the module will send a reply with 'Config OK the Main User and Password Is Reset To 13689645010 (center no.): 123456 (new password)'.

Format: #CJML# SN code # new password (6 digits) # Center number#

SN code pls checking it with backside of product.

Example: #CJML#886600000633#000000#13689645010#

Note: Center number must be a mobile phone number, telephone number will not work.

Center Number Setup

Set the center number by SMS through mobile phone. If the setup is successful, the sender will receive "CONFIG OK The main user is: 13286689393" from the tracker

Format: #710# former password # new password (6 digits) #center number#

For example: #710#000000#000000#13689645010#

Note: All alarming information thereafter including SOS, low power, electronic fence etc. will be sent to this number. 000000 is the default password.

APN (Access Point Name) Setup

Set APN by SMS through mobile phone. If the setup is successful, the sender will receive "CONFIG OK" from the tracker

Format: #802#GSM provider name #APN # Log user name # Log password #

The default APN is CMNET, if the APN doesn't have login user name and password, it can be set 0.

Example 1: #802#Chinamobile#CMNET#0#0#

APN is CMNET, no login user name, no login password

Example 2: #802#CHINAMOBILE#CCDLEN#QIUXIA.21#RX0000#

APN is CCDLEN; the login user name is QIUXIA.21 and login password is RX0000.

Note: The default APN of this product is CMNET.

Server connection Setup

Format: #803# domain name or IP address # port number#

This command is used to set GPRS center server address, which could be fixed IP number. After the setup is successful, the module will send a reply with 'config ok, the ip server is 59.188.20.67:8545'.

Example: #803#59.188.20.67#8545#

Setup via domain name:

Example: #803#www.gps288.com#8545#

Regular Upload Interval Setup

The defaulted factory upload time interval of this device is 10 seconds for getting the point and uploading one point location information. The user could change such parameter according to actual demand.

Format: #730# sampling interval #

The value of sampling interval from 10 seconds to 3600 seconds

For example: #730#30#

Note: The parameter "30" indicates getting and uploading one point location information every 30s.

Vehicle Defense Setup

Note: You need to open the vehicle defense first, then you can use the vibration Alarm, or you cannot use vibration Alarm.

1) Open vehicle defense

Format: #911#

After sending command successfully, the tracker will return a message "config OK The Auto Alert Is: On".

2) Close vehicle defense

Format: #910#

After sending command successfully, the tracker will return a message “config OK The Auto Alert Is: Off”.

Vibration Alarm Setup

Format: #ZDBJ# sensitivity (1-15) # alarm mode (0,1) #

Sensitivity “1” is the most sensitive and of course “15” is the most insensitive.

Alarm mode “0” indicates vibration alarm is closed.

Alarm mode “1” indicates the device will alarm you through calls or SMS.

Note: SMS will be sent only when the device is online on the tracking system.

For example: If you set #ZDBJ#1#1#, the device will send you back “Config OK The Vibrate Warning Is: 1 1”

That means that the tracker is in a most sensitive status and alarm by calls.

Cut oil supply by SMS

Format: #DY# password # state #

The value of state is “0” and “1”, “1” is cut off oil, “0” is restore oil

Example: #DY#000000#1#

For safety, this command will be function when the speed less than 5KM/h

After sending command successfully, the tracker will return a message “config OK” and cut oil supply of the vehicle.

Low Battery Alert Setup

Format: #DDBJ# state #

The value of state is “0” and “1”, “1” means “open low battery alert”, “0” means “close low battery alert”.

Example: #DDBJ#1#

After sending command successfully, the tracker will return a message “config OK Low Battery Alert Is: On”.

Over-speed Alarm Setup

Format: #CSBJ# speed limit (km/h) # state #

The value of state is “0” and “1”, “1” means “open over-speed alarm”, “0” means “close over-speed alarm”.

Example: #CSBJ#80#0#

After sending command successfully, the tracker will return a message “config OK The Warning Speed Is: 80 Off”.

Time Zone Setup

Format: #896# E or W # time zone #

The value of state is “E” and “w”, “E” means “eastern time zone”, “W” means “western time zone”.

Example: #896#E#8#

After sending command successfully, the tracker will return a message “config OK Set Current time zone as: E8”.

Note: The default time zone is GMT+8. So you need recover it to GMT 0 first with command “#896#w#8#”. Then you can set your time zone accordingly.

Open GPS Signal

Note: Center number can send this command to open GPS. The tracker will begin to work with GPS signal. There is still GPS signal even the tracker is shutdown.

Format: #810#

After sending command successfully, the tracker will return a message “config OK”.

Note: The default GPS signal state is open.

Close GPS Signal

Note: Note: Center number can send this command to close GPS. The GPS module will stop working and in this mode, there will be less power consumption. There is still no GPS signal even the tracker is shutdown.

Format: #811#

After sending command successfully, the tracker will return a message “config OK”.

Pre-stored numbers Setup

Format: #711#password#phone number1# phone number2# phone number3# phone number4#

Note: phone no. 4 is the voice monitor no. and it cannot be the same one as center number or any other pre-stored numbers. (Only this number can do voice monitor.)

For example: You want to set four stored numbers

#711# 000000#13567892314#13892341600#13625678900#13625678901#

The new numbers will replace the old numbers, and it will send confirmation to the sender if the password is right....CONFIG OK. Note: 13625678901 is the voice monitor no., only this number can make voice monitor.

SOS button (Emergency call button)

In case of emergency, please press SOS button over 3 seconds, center number will receive a call and SMS.

Note: SMS will be sent only when the device is online on the tracking system.

Device Setup inquiry

Format: #902#password#

Example: #902#000000#

After sending command successfully, the tracker will return a message "Settings: The Main User Is: 13689645010 The Auto Alert Is: Off Low Battery Alert Is On The Vibrate Warning Is :On The Alert Call Is :Off The Warning Speed is :Off".

Remote Restart

Format: #90382#password#

Example: #90382#000000#

After sending command successfully, the tracker will return a message "Config OK The Machine Will Restart!"

Restore factory settings

Format: #HFSZ#

Example: #HFSZ#

After sending command successfully, the tracker will return a message "Config OK Device Has Been Reset To Factory Setting"

4.1. SMS & Platform Tracking

SMS location inquiry

There is no need for Center number to add the password to inquiry. Other numbers need to add the password to inquiry.

1) Address tracking

Format: #666#password#

For example you send #666#000000# to the tracker, you will get a reply SMS as follow:

SN: 886600000525

No.106, Sanlian Road, Longhua Town, Bao'an District, Shenzhen, China.

Notes: Only when the device is online on the tracking system, it will send you back this SMS information.

2) Longitude & latitude tracking

Format: #888#password#

For example you send #888#000000# to the tracker, you will get a reply SMS with link.

<http://map.google.com/?q=22.677327N,114.120738E> SPEED: 000.0

Date: 12-05-28

Time: 15:52:04

IMEI: 353509000924608

Visit the link by your phone or computer; you will know the name of the location in detail.

When there is no GPS signal, you will get a repay SMS as follow:

MCCMNC: 460010 LAC: d1e3 CELLID: 2535

Tracking on platform

Please visit www.gps288.com or www.track188.com for online real-time tracking and fleet management.

For details, please refer to our tracking system user manual.

Notes

- 1. This non-waterproof equipment, please be sure to have waterproof bag.*
- 2. This equipment has to work with GSM network.*
- 3. Please ensure that there are enough expenses in SIM card in order to avoid the inconvenience of using.*

- 4. This equipment cannot work in the power failure state and outside the service areas, even if the registered users.*
- 5. This equipment supports GPS and GSM/GPRS double positioning, regarding as the same with the GPS positioning results.*
- 6. Please use this equipment in the legal areas. The consequences of any violation of the law will be undertaken by the users themselves.*