GPS TRACKER
BW03

(4G/2G+GPS+SMS+GPRS+LBS)

USER MANUAL

(Version 1.1)

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

1. SUMMARY

Working based on existing 4G/GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS, APP and Internet. It adopts the most advanced technology of GPS and AGPS dual positioning.

2. SPECIFICATION

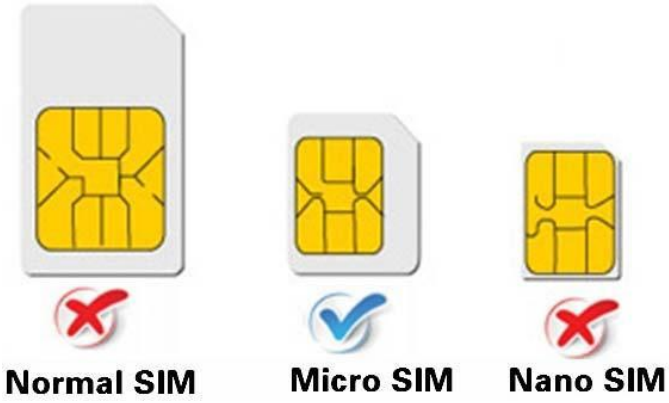
Content	Specs.
Built-in battery(Optional)	3.7V /55mAh Li-ion battery
Input Voltage	35mA @DC 9V-40V, Sleep Current:0.8mA
Dimension	8cm x 3.3cm x 1.4cm
Weight	30g
Network& Band (Optional)	A): LTE-FDD: B1/B3/B5/B7/B8/B20 GSM: 900/1800 MHz B): LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900 MHz C): LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 GSM: 900/1800 MHz
GPS sensitivity	-159dBm
GPS accuracy	<10M
Time To First Fix	Cold start 45s Warm start 35s Hot start 1s
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

3. FUNCTION(Optional)

◇ GPS satellite & LBS base station dual model positioning
◇ Vibration alarm (G-sensor sensitivity is adjustable from 1 to 5 grade)
◇ Low current consumption sleep mode
◇ ACC detection(Digit input1: 9-40V)
◇ ADC detection(Analog input: 0-26V): support fuel oil sensor, temperature sensor
◇ Remote control cut-off/on engine (petrol / electricity)
◇ Power cut off alarm
◇ SOS Alarm
◇ VOICE MONITORING
◇ GEO-fence
◇ 128M data storage while no GSM

4. TURN ON THE DEVICE:

Note: Only Micro SIM card can be used, Normal or Nano SIM card must be converted by SIM adapter.



（**PIC.1**）

4.1 Slide open device cove, insert the SIM card(chip face down) to the slot and fasten SIM socket cover.

4.2 Turn on the built-in battery switch, Indicator light will be on, Then close the device cover. Red led will be 1s ON 1s OFF.

4.3 Connect the device to the car battery by power cable(Red wire is positive, Black wire is negative).Red led will be 0.5s ON, 1s OFF.

4.4 Device start to search GSM and GPS signal. About within 5 minutes Blue LED and Green LED will flash

4.5 If you want to track device by APP & Web platform, the GPRS internet with APN setting is required.

5. INDICATING LED LIGHT

NOTE：For covert protective , the LED status will be invisible after USB Silicone cover sealed.

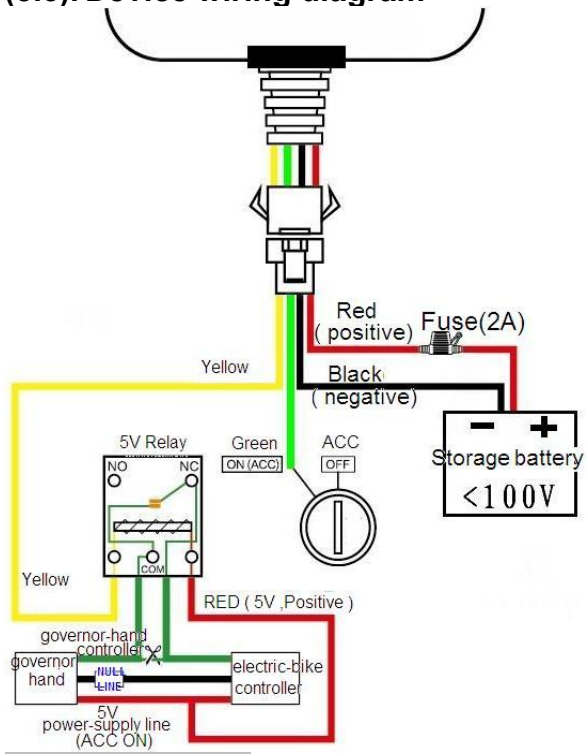
(5.1).Blue LED-GSM status indicator

LED Status	Meaning
Slow flash	Only getting GSM signal, No Server connecting
Quick flash	Working normally , Server connecting OK
Continuously in bright status	No GSM signal, SIM card problem

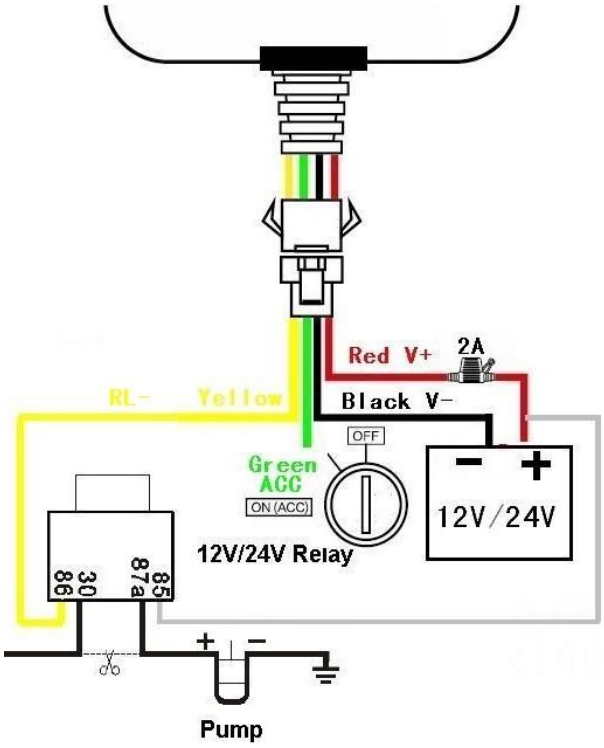
(5.2).Green LED- GPS status indicator

LED Status	Meaning
Quick flash	Working normally , GPS Located
Continuously in bright status	Searching GPS signal

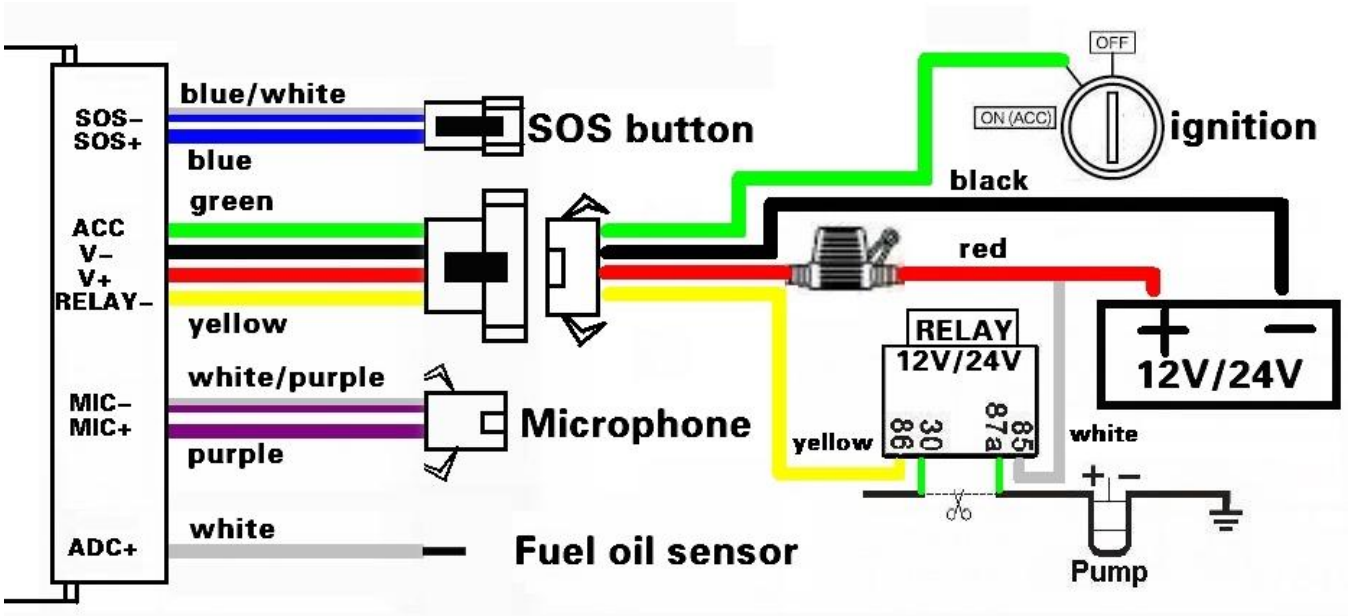
(5.3). Device wiring diagram



FOR Electric Bike



FOR Car



Model BW03C

6. SMS COMMANDS

User can set different kinds of function commands via sending message, Below commands and punctuation marks must be putted under English status and must no space. All correct commands will get auto replies according to the message sent but no reply if command is wrong. **Note:** device with initial password 6666.

command format: #password#command#parameter#

6.1 SMS LOCATION TRACKING

Call the SIM card phone number in tracker, you will receive a Google Maps link of position, or sending message “1234” or “#6666#GL#” to SIM card phone number in tracker.

6.2 Admin number setting

A total of 2 admin numbers can be added. After adding the admin number, device will call and sms to admin number while there is an alarm event occurs, such as vibration alarm, Uninstall alarm, over-speed alarm etc.

E.g:

Adding admin number 1: #6666#AAD#1#your number 1#

Adding admin number 2: #6666#AAD#2# your number 2#

Delete admin number 1: #6666#DAD#1#

Delete admin number 2: #6666#DAD#2#

6.3 APN SETTING

APN setting command format:

#6666#SAPN#apn name#user name#password#

E.g:

For tesco mobile SIM card in UK, we got APN information below.

APN name:prepay.tesco-mobile.com

APN username:tescowap

APN password:password

So SMS command is:

#6666#SAPN# prepay.tesco-mobile.com#tescowap# password#

E.g:

For china mobile SIM card in china, we got APN information below.

APN name:CMMNET

APN username: NO

APN password: NO

So SMS command is:

#6666#SAPN#CMMNET###

Note: Every sim card carrier has own APN content, we have two methods to find out apn content : check sim card carrier on internet or put sim card into cell phone to find out APN

6.4 VIBRATION ALARM SETTING:

Vibration setting command format:

#6666#SSA# Vibration level#

(0:disable vibration alarm, 1~5: level value, level 1 is the most sensitive)

6.4.1）Add admin number: please use your mobile phone to send a SMS to the device Refer to section **6.2**. (make sure to text the SMS under English input).

After add your number as administrator, device will reply you a SMS with OK or failed.

6.4.2） Setting vibrate alert level: text a SMS to active vibration alarm and send to the device(make sure to text the SMS under English input), and set the vibration alert level.

6.4.3）After finished above 2 steps, vibration alarm had been activated. As long as the device is stopped for more than 5 minutes, if somebody gets in touch with device, It will send SMS and call the admin number.

.4.

6.5 LOW BATTERY ALARM SETTING :

Low battery alarm setting command format:

#6666#LOWBAT# Level Value#

(Level value is from 0 to 6, 0 means disable low battery alarm, 1-6 means low battery alarm threshold, Factory default setting is 0)

If the current battery level is below the set threshold, device will call the admin number and send a text message.

6.6 MOVING INTERVAL TIME SETTING :

Moving interval time setting command format:

#6666#SMT# value#

(Value is from 5 to 65530, The unit is seconds, Factory default setting is 30)

When Moving, this value determines the interval at which the device sends data to the server.

6.7 SLEEPING TIME SETTING :

Sleeping time interval setting command format:

#6666#SLEEP# Value#

(Value is from 0 to 8640, The unit is minutes, 0 means disable sleep mode, Factory default setting is 20)

As long as the device is stopped for more than 5 minutes, it will shut off all the LED lights, turn off GPS module and goes to sleeping mode to save battery. For example, the sleeping time interval is 20 minutes, the device will sleep and wake up in every 20 minutes automatically. There are 2 methods to force exit the sleeping mode:

1)，Shake the device will activate it and exit sleep mode.

2)，ACC is ON.

Note: While the device is moving, it will not sleep. It only sleeps after 5 minutes no moving.

6.8 TIME ZONE SETTING :

Time zone setting command format:

#6666#STZ# Value#

(Value is from E0 to E12, and from W0 to W12. E0 means east 0 time zone, W12 means west 12 time zone, Factory default setting is E8)

E.g:	E.g:
China time zone is +8	Brazilian time zone is west 4
So SMS command is:	So SMS command is:
#6666#STZ#E8#	#6666#STZ#W4#

7. Notices:

1).GPS tracking can be worked outdoor.
2).Please make sure GSM SIM card supports making calls, sending messages, GPRS network.
3).Please make sure GSM SIM card is with sufficient balance.
4).Please make sure the GSM card has opened the call shows and turned off the call transfer.
5).Please insert the GSM phone card correctly.
6).Do not assembly and disassembly device at will.

8. WEB&APP ONLINE TRACKING

Platform : www.gpsdd.net

Select “Login by Device NO.” on the bottom of screen, then input ID number and password, then click "Login"

ID No. : on the back side of cover

Password: 123456

9. FAQ and processing methods.

FAQ	Instructions/Solutions
Fail to turn it on	Please check if battery is charged
No GSM signal	Please check if SIM card installed correctly. Please check if SIM card is GSM network. Don’t turn on the PIN code No calls can be diverted
No GPS	A more open view of the sky is recommended to make sure the device can receive the GPS signal normally.
No reply to SMS command	Format is wrong. make sure command no space, and must be English input mode.
No reply to calling & No alarm message	admin phone number is incorrect or has not setup
SMS position OK, cannot use the APP and web platform	Pls check if APN is correctly set. And pls find out the correct APN content of the SIM card. (Pls refer to 6.3 setting.)
Platform position is difference from the actual position.	No uploading position time or no GPS signal: call the device phone number and receive the position message. make sure device is outside, then it can get GPS signal