Terminal and monitoring center communication protocol

**Digital Edition (3rd version)**

**SHENZHEN COBAN ELECTRONICS CO., LID**

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# Terminal login monitoring center

The terminal sends the login package: ##,imei:359586015829802,A;

Server reply: LOAD

Note: When the terminal receives LOAD, it means it is connected. If it does not receive it, it will continue to send login information.

# Heartbeat pokets

To ensure that the terminal is online in real time, the device will send heartbeat packets regularly with an interval of 3 minutes.

The content of the heartbeat packet is its IMEI number, for example: 359586015829802

Server reply: ON

Note: If the terminal receives ON, it means it is online. If it does not receive a reply from the server twice, it means it is offline and needs to be disconnected and reconnected. After the server verifies the legitimacy of the terminal, it will consider the device online when it receives any complete frame data message from the device.

# Message format sent by the server

|  |  |  |  |
| --- | --- | --- | --- |
| Header | ID | Key words | Message content |
| \*\* | ,imei :359587010124900 | , | , |

## Keyword description

|  |  |  |  |
| --- | --- | --- | --- |
| Send type | | Response type | |
| **Key words** | **Function Description** | **Key words** | **Function Description** |
| B | single positioning | tracker | Single positioning report |
| C | Automatic continuous positioning | tracker |  |
| D | Cancel automatic continuous positioning | dt | Cancel automatic continuous positioning successfully |
| E | Cancel alarm | et | Alarm canceled successfully |
| G | Movement alarm | gt | Movement alarm successful |
| g | Cancel Movement alarm | gg | Cancel Movement alarm successfully |
| H | speed alarm | ht | Speed alarm successful |
| I | Set time zone | it | Set time zone successfully |
| J | Cut off fuel and power | jt | Fuel and power cut off successfully |
| jk | When the vehicle speed is lower than 20 kilometers/hour, fuel and power will be cut off. |
| K | Restoring fuel and power | kt | Fuel and power restored successfully |
| L | arm | lt | Armed successfully |
| lf | Arming failed, please turn off ACC |
| M | disarm | mt | Disarmed successfully |
| O | Set up Geo-fence | ot | Geo-fence set up successfully |
| P | Cancel electronic fence | pt | Cancel electronic fence successfully |
| U | Set the angle of smart angle updating | ut | Set the angle of smart angle updating successfully |
| e | Turn on shock alarm | ee | Shock alarm turned on successfully |
| f | Turn off shock alarm | ff | Turn off shock alarm successfully |

# Terminal reporting information format

## Message format

|  |  |  |  |
| --- | --- | --- | --- |
| Header | ID | content | terminator |
| imei | :359587010124900 |  | ; |

|  |  |  |
| --- | --- | --- |
| **Field** | **describe** | **Length (bytes)** |
| Header | The message header is imei | 4 |
| ID | Corresponding device IMEI number, used as legal identification of the device | 1+15 |
| content | Message content is a comma separated field | N |
| terminator | The terminator is; | 1 |

## Content field description

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Key words | time | Power |  | gps time |  | latitude | north and south | longitude | thing | speed | Direction/Address Request |
| , **tracker** | ,0809231929 | ,60 % | , F/L | , | , A / V | , | , S/N | , | , E/W | , | , 360.00/1 |

Continue

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Altitude | ACC status | door status | Oil volume 1 | humidity | temperature | Finish |
| , | , 1 | , 1 | ,45% | , 80 % | ,25 | ; |

**Message example:**

imei:353451044508750, **tracker** , 0809231929, 13554900601,F,055403.000,A,2233.1870,N,11354.3067,E,0.00, 30.1 , 65.43,1,0,10.5%,0.0%, 28 ;

**Content description:**

The content after the first comma is: keywords;

The content after the second comma is: year, month, day, hour, and minute;

The content after the third comma is: battery power percentage;

The content after the fourth comma is: whether the GPS signal is normal;

F indicates that the following GPS data is valid, L indicates that there is no GPS signal. In the old version, it is 5 commas when L appears, and the following fields are empty. In the new version, it represents the base station positioning, LAC replaces the latitude, and Cellid replaces the longitude.

imei:359586015829802,help me,000000000,13554900601,L,,,22820,,10320,,, , ;

The content after the fifth comma is: hours, minutes and seconds in 0 time zone;

The content after the sixth comma is: corresponding to the content after the fourth comma, A=F, V=L;

The content after the seventh comma is: latitude;

Content after the eighth comma: N is northern latitude, S is southern latitude;

Content after the ninth comma: longitude;

Content after the tenth comma: E is east longitude, W is west longitude;

the eleventh comma: speed.

The content after the twelfth comma: when it is 1, it represents the address request, when it is not 1, it represents the direction (the direction must have a decimal point) ;

The content after the thirteenth comma is: altitude;

The content after the fourteenth comma is: the current ACC status of the vehicle; 1 means ignition, 0 means flameout.

The content after the fifteenth comma is: the current door status of the vehicle; 1 means open, 0 means closed.

The content after the sixteenth comma is: the percentage of fuel remaining in tank 1

The content after the seventeenth comma is: humidity percentage

The content after the eighteenth comma is: the current temperature indicated by the temperature sensor

The nineteenth number ends with a semicolon.

## Keyword description

|  |  |
| --- | --- |
| **Key words** | **Function Description** |
| tracker | Positioning information |
| help me | SOS alarm |
| low battery | Low battery alarm |
| move | movement alarm |
| speed | speed alarm |
| stockade | Geo-fence alarm |
| ac alarm | External power disconnection alarm |
| door alarm | Door open alarm |
| sensor alarm | Vibration / shock alarm |
| acc alarm | Illegal ignition ACC alarm |
| T: | temperature alarm |
| oil | Fuel theft and Fuel leakage alarm |

# Message details

## Positioning message

#### single targeting

server 🡪terminal

\*\*,imei:359586018966098,B

terminal 🡪server

imei:353451044508750,tracker, 0809231929 ,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Continuous limited time positioning

server 🡪terminal

\*\*,imei:359586018966098,C ,10s,10m

The terminal reports positioning information to the server at a set time interval. The motion reporting interval is 10 seconds and the stationary reporting interval is 10 minutes.

imei:353451044508750,tracker, 0809231929 ,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Cancel automatic continuous positioning

server 🡪terminal

\*\*,imei:359586018966098, D

terminal 🡪server

imei:353451044508750, dt , 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Cancel alarm

server 🡪terminal

\*\*,imei:359586018966098, E

terminal 🡪server

imei:353451044508750, et , 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

After sending the alarm cancel command, all set alarms are canceled and no longer take effect.

#### Set Movement alarm

server 🡪terminal

\*\*,imei:359586018966098,G ,65535

terminal 🡪server

imei:353451044508750,gt, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

After setting the movement alarm, the alarm will be triggered when the distance exceeds 200 meters.

#### Cancel movement alarm

server 🡪terminal

\*\*,imei:359586018966098,g

terminal 🡪server

imei:353451044508750,gg, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Set speed alarm

server 🡪terminal

\*\*,imei:359586018966098,H ,080

terminal 🡪server

imei:353451044508750,ht, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Set the time zone of the terminal

server 🡪terminal

\*\*,imei:359586018966098,I ,-5

terminal 🡪server

imei:353451044508750,it, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

The “-5” in the command indicates the time zone. Indicating that it is in the -5 zone, If the time zone is positive zone 8, omit the positive sign and it will be the number 8 directly.

#### Cut off fuel and power

server 🡪terminal

\*\*,imei:359586018966098,J

The fuel and power were cut off successfully, and the terminal replied:

imei:353451044508750,jt, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

If the vehicle speed is lower than 20 kilometers/hour, the fuel and power will be cut off, and the terminal will reply:

imei:353451044508750,jk, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Restoring fuel and power

server 🡪terminal

\*\*,imei:359586018966098,K

terminal 🡪server

imei:353451044508750,kt, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### arm

server 🡪terminal

\*\*,imei:359586018966098,L

Arming is successful , the terminal replies:

imei:353451044508750,lt, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

Arming failed, please turn off ACC. The terminal replies:

imei:353451044508750,lf, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

After arming, ACC, door and vibration alarms will take effect.

#### disarm

server 🡪terminal

\*\*,imei:359586018966098,M

terminal 🡪server

imei:353451044508750,mt, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Set up Geo-fence

server 🡪terminal

\*\*,imei:359586018966098,O ,22.553276,113.903516; 20.553276,114.903516

terminal 🡪server

imei:353451044508750,ot, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

There are two latitudes and longitudes. The first one is the latitude and diameter of the point in the upper left corner of the rectangle. The second one is the latitude and diameter of the point in the lower right corner of the rectangle. Note that they are divided into positive and negative. If it is positive, omit the + sign. If negative, add - sign.

#### Cancel Geo-fence

server 🡪terminal

\*\*,imei:359586018966098,P

terminal 🡪server

imei:353451044508750,pt, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Set the angle of smart angle updating

server 🡪terminal

\*\*,imei:359586018966098,U ,030

terminal 🡪server

imei:353451044508750,ut, 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Alarm message

The alarm message is information proactively reported by the device. The server will analyze and process it after receiving it without responding.

#### SOS alarm

imei:353451044508750, help me ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Low battery alarm

imei:353451044508750, low battery ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Movement alarm

imei:353451044508750, move ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### speed alarm

imei:353451044508750, speed ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Geo-fence alarm

imei:353451044508750, stockade ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### External power disconnection alarm

imei:353451044508750, ac alarm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Door open alarm

imei:353451044508750, door alarm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Vibration / shock alarm

imei:353451044508750, sensor alarm , 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Illegal ignition ACC alarm

imei:353451044508750, acc alarm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### temperature alarm

imei:353451044508750,T:+28.0,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

"T:" represents the temperature alarm, "+28.0" represents the current temperature.

#### Fuel theft and fuel leakage alarm

imei:353451044508750, oil 51.67,0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

" Oil " represents the temperature alarm, and the remaining oil in the mailbox is 51.67% . (Fix: The new server does not have enough fuel)

## ACC work notice

When ACC ignites, the terminal sends:

imei:353451044508750, acc on , 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

When the ACC is turned off, the terminal sends:

imei:353451044508750, acc off , 0809231929 , ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

The server counts the engine working time based on the time when the terminal sends ACC on and ACC off.

## 405 wifi related protocols

1. Set wifi switch

server 🡪terminal

\*\*, imei: 353451044508750, hotspot switch , on/off

Terminal reply :

imei:353451044508750,hotspotswitch,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

At the same time, the hotspot is opened successfully and the terminal replies with the wifi hotspot name and password :

i mei:353451044508750, wifi, hotspot name , hotspot password;

1. When the vehicle terminal detects a DOOR/ACC/SOS alarm, the device will actively turn on the camera function while alarming and upload the photos taken to the monitoring platform. The device will send the picture link address to all authorized numbers.

terminal 🡪server

imei:353451044508750, photo, latitude, N/S, longitude, E/W, reporting type, reporting time, reporting type, number of pictures, picture address; (Reporting type: 0 device reports alarm 1 user sends photo)

Note: If the four parameters of reporting time, alarm type, longitude, and latitude are empty, do not fill them in.

1. The device reports the QR code pairing result

terminal 🡪server

imei:353451044508750, pairresults , camera channel id, results, presence or absence of T card, camera uid ;

1. Synchronize camera channels

terminal 🡪server

imei:353451044508750, camerasync , total number of channels, camera channel id, result, presence or absence of T card, camera uid, camera channel id, result, presence or absence of T card, camera uid,... ;

## driving behavior

## Sharp turn alarm

server 🡪terminal

\*\*,imei: 353451044508750, sharpturn,30,60

Set the turning alarm parameters: turning angle 30 degrees, speed 60

server 🡪terminal

\*\*,imei: 353451044508750, switchsharpturn,on/off

Set the turn alarm switch: on to enable the function, off to disable the function

Terminal 🡪server ( alarm )

imei:353451044508750, sharp turn alarm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Acceleration alarm

server 🡪terminal

\*\*, imei: 353451044508750, accelerate ,60

Set acceleration alarm parameters: speed increased by 60

server 🡪terminal

\*\*,imei: 353451044508750, switchaccelerate,on/off

Set the acceleration alarm switch: on to enable the function, off to disable the function

Terminal 🡪server ( alarm )

imei:353451044508750, accelerate alarm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### brake alarm

server 🡪terminal

\*\*, imei: 353451044508750, brake ,50

Set the brake alarm parameters: reduce the speed from 50 to 0

server 🡪terminal

\*\*, imei: 353451044508750, switchbrake, on/off

Set the brake alarm switch: on to turn on the function, off to turn off the function

Terminal 🡪server ( alarm )

imei:353451044508750, brake alarm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

#### Collision alarm

server 🡪terminal

\*\*, imei: 353451044508750, collision ,20,60

Set the collision alarm parameters: collision duration 20 units milliseconds, collision acceleration 60 units 0.1g.

server 🡪terminal

\*\*,imei: 353451044508750, switchcollision,on/off

Set the collision alarm switch: on to turn on the function, off to turn off the function

Terminal 🡪server ( alarm )

imei:353451044508750, collision alarm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

SMS alarm sends "Collision alarm + latitude and longitude" to the authorized number

## Check for updates

server 🡪terminal

\*\*,imei: 353451044508750,upgradequery

terminal reply

imei:353451044508750,upgradequery,0/1, current version number/upgradeable version number; (Note: 0 represents the current version number; 1 represents a version number that can be upgraded);

**1. Issue upgrade confirmation instructions :**

server 🡪terminal

\*\*, imei: 353451044508750, upgrade ,

terminal reply

imei:353451044508750,upgrade,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

**2. Terminal upgrade result notification**

terminal 🡪server

imei:353451044508750,upgraderesult, 0/1 (Note: 0 means the upgrade failed; 1 means the upgrade was successful) .

## View version number

server 🡪terminal

\*\*, imei:359586018966098, vv

terminal 🡪server

imei:353451044508750, vvt , version number, product id, version code, sleep mode version

## remote start

server 🡪terminal

\*\*,imei:359586018966098 ,A

terminal 🡪 server

imei:353451044508750, At ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Remote flameout

server 🡪terminal

\*\*, imei:359586018966098 , a

terminal 🡪 server

imei:353451044508750, at ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Alarm rotation

terminal 🡪server

imei:353451044508750, wheel alarm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## lock motor

server 🡪terminal

\*\*,imei:359586018966098 ,Z

terminal 🡪 server

imei:353451044508750, Zt ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Unlock the motor

server 🡪terminal

\*\*,imei:359586018966098 ,z

terminal 🡪 server

imei:353451044508750, z t ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## New protocol in December 2023

## New device protocol: status synchronization

The device sends status to the server each time it logs in or when its status changes and becomes online:

imei:863584040008426,status,0,10,3600,0,0,0.00,0,0,0,0,0,1,5,60,123456,18702777364,15,22.554463\_113.903901\_500,2;

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Key words | sleep mode | Motion reporting interval | Stationary reporting interval | Arm and disarm | | speeding | Time zone | Shock alarm | Fuel and power control status |
| ,status | ,0 | ,10 | ,3600 | ,0 | | ,0 | , 0.00 | ,0 | ,0 |
| External power cut-off switch | Remove alarm switch | Fuellevel alarm switch | Low battery alarm switch | Number of alarm messages | Fuel tank capacity | Password of device | Balance inquiry method 2 numbers | Angle of smart angle updating | movement |
| ,0 | ,0 | ,0 | ,1 | ,5 | ,60 | ,123456 | ,10086 | ,15 | ,22.554463\_113.903901\_500 |
| Shock sensor sensitivity |  |  |  |  |  |  |  |  |  |
| ,2 |  |  |  |  |  |  |  |  |  |

* 1. Sleep mode (0: Real-time online ;1: Smart mode; 2: Power saving mode)
  2. The unit of motion reporting interval is seconds, 0 means turn off the reporting (in power-saving mode, the wake-up time is 09:30)
  3. Stationary reporting interval (in power saving mode, the wake-up interval is 1 hour)
  4. Arming and disarming status 1: Armed ;0: Disarmed
  5. The overspeed unit is km/h, 0 means turning off the overspeed alarm.
  6. Time zone: positive or negative with decimal point, such as -8.5
  7. Vibration / shock switch status 1: on 0: off
  8. Fuel and power control state 1: Fuel and power off state; 0: restore fuel and power state
  9. External power on / off switch 1: open; 0: closed
  10. Tamper alarm switch 1: open; 0: closed
  11. Fuel level alarm switch 1: open; 0: closed
  12. Low battery alarm switch 1: open; 0: closed
  13. Number of alarm messages by SMS, 5 means 5 times by SMS
  14. Fuel tank capacity 60L
  15. Password of the device 123456
  16. Balance inquiry method 2 number: 10086
  17. Angle of the smart angle updating: 30 degrees
  18. The unit of the movment alarm is “m”(meter), if the value is 0, then turn off this alarm. The format of the data here is: latitude\_longitude\_radius 22.554463\_113.903901\_500
  19. Vibration / shock sensitivity, sensor sensitivity is divided into three levels: 1/2/3

## Set working mode

1. **real time online**

server 🡪terminal

\*\*, imei: 353451044508750, online

terminal 🡪 server

imei:353451044508750, online ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,;

1. **Smart mode**

server 🡪terminal

\*\*, imei: 353451044508750, sleep

terminal 🡪 server

imei:353451044508750, sleep ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,;

1. **Power saving mode (supported by 108, 408, 501 and other handheld devices)**

server 🡪terminal

\*\*, imei: 353451044508750, psm, wake-up time , reporting interval

The wake-up time format is (hour : minute) , and the reporting interval unit is hours.

terminal 🡪 server

imei:353451044508750, psm ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,;

## Set password (password command)

server 🡪terminal

\*\*, imei: 353451044508750, password , 6-digit new password

Set password: 6-digit new password

terminal 🡪server

imei:353451044508750, password ,0809231929, ,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set authorization number (admin command)

**Set authorization number parameters: authorization number 88879838**

server 🡪terminal

\*\*,imei: 353451044508750,admin,88879838

terminal 🡪 server

imei:353451044508750,admin,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

**Delete the authorization number parameter: authorization number 88879838**

server 🡪terminal

\*\*,imei: 353451044508750,noadmin,88879838

terminal 🡪 server

imei:353451044508750,noadmin,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set low battery alarm (lowbattery command)

server 🡪terminal

\*\*,imei: 353451044508750,lowbattery,on/off

Set external power failure alarm switch parameters: turn on; turn off

terminal 🡪 server

imei:353451044508750,lowbattery,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set external power outage alarm (extpower command)

server 🡪terminal

\*\*,imei: 353451044508750,extpower,on/off

Set external power failure alarm switch parameters: turn on; turn off

terminal 🡪 server

imei:353451044508750,extpower,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set the demolition alarm (tamper command)

server 🡪terminal

\*\*,imei: 353451044508750,tamper,on/off

Set the demolition alarm switch parameters: turn on; turn off off

terminal 🡪server

imei:353451044508750,tamper,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set the number of alarms (xtime command)

server 🡪terminal

\*\*,imei: 353451044508750,xtime,005

Set the alarm number parameter: alarm number value 005

terminal 🡪server

imei:353451044508750,xtime,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set the balance inquiry method 1 ( balance command)

server 🡪terminal

\*\*,imei: 353451044508750,balance,7000, content

Set the balance inquiry parameters: Assume that the operator's SMS number for querying phone charges is 7000, and the content is the code for querying charges specified by the operator.

The device will forward the received text message from the operator to the server platform for display

Terminal 🡪server (internal)

imei:353451044508750,balance,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set the balance inquiry method 2 (forward command)

server 🡪terminal

\*\*,imei: 353451044508750,forward,7000

Set SMS forwarding parameters: forward 7000

terminal 🡪server

imei:353451044508750,forward,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Terminal reports balance inquiry content (smscontent command)

terminal 🡪server

imei:353451044508750,smscontent,0/1,SMS time,SMS number,SMS content;

Type word: 0 indicates that the SMS content is obtained using the “balance inquiry method 1”; 1 indicates that SMS content is obtained using the “balance inquiry method 2”

## Restore factory settings (begin command)

server 🡪terminal

\*\*,imei: 353451044508750,begin

terminal 🡪server

imei:353451044508750,begin,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Device restart /reboot (reset command)

server 🡪terminal

\*\*,imei: 353451044508750,reset

Set device restart instructions

terminal 🡪 server

imei:353451044508750,reset,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set up acc work notifications

server 🡪terminal

\*\*,imei: 353451044508750,acc,on/off

Set acc work notification: turn on; turn off

terminal 🡪server

imei:353451044508750 , acc,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set tank volume

server 🡪terminal

\*\*,imei: 353451044508750,oil,75

terminal 🡪server

imei:353451044508750,oil,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Fuel sensor calibration

server 🡪terminal

\*\*,imei: 353451044508750,oilsensor,oilzero/oilfull

Set oil sensor calibration: zero oilzero; full oilzero

terminal 🡪server

imei:353451044508750,oilsensor,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set the oil level alarm switch

server 🡪terminal

\*\*,imei: 353451044508750,oilleak,on/off

Set the parameters of the oil level alarm switch: turn on; turn off

terminal 🡪server

imei:353451044508750 , oilleak,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set initial mileage value

server 🡪terminal

\*\*,imei: 353451044508750,mileage,75

terminal 🡪server

imei:353451044508750,mileage,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set the angle for smart angle updating function

server 🡪terminal

\*\*,imei: 353451044508750,angle,75

terminal 🡪server

imei:353451044508750,angle,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Set vibration / shock sensitivity

server 🡪terminal

\*\*,imei: 353451044508750,sensitivity,1

terminal 🡪 server

imei:353451044508750,sensitivity,0809231929,,F,055403.000,A,2233.1870,N,11354.3067,E,0.00,,;

## Authorization number synchronization

server 🡪terminal

\*\*,imei: 353451044508750,adminlist;

terminal 🡪 server

imei:353451044508750,adminlist , authorization number 1 , authorization number 2 , authorization number 3 , authorization number 4 , authorization number 5;