

VT202 Function definition and SMS Command List V1.1

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Appearance



Parameter

Network: GSM

Data Service: GPRS

Frequency: GSM: 850/900/1800/1900

LED: Blue – GPS, Red-Power, Green-GSM

Switch: ON/OFF

Working: ON/OFF button to control internal battery

Voltage: 9-100V

GPS: Support, 尺寸: 25mm x 25mm

G-sensor: Support

SIM Card Slot: One, Micro SIM Card

Battery: 90Ma, 75mA

Wires: Power, GND, Engine Cut, ACC

External Power disconnect alarm: support

External Power connection status detection: support

LED Definition

Name	Status	Definition
Battery Indicator (red)	Fast Flash(On 0.1sec, off 0.1sec)	Low Battery Alarm
	Slow Flash(On 0.1sec, off 2seconds)	In 5mins after device boot
	Off	Five minutes after normal work

	LED off after long bring	Detect g-sensor Normal on boot
	Constant On	G-sensor abnormal
GPS Indicator (Blue)	Fast Flash (On 0.1sec , off 0.1sec)	Searching GPS signal
	Constant on	GPS located
	Off	GPS no working
GSM Indicator(Green)	Fast Flash (On 0.1sec, Off 0.1sec)	GSM Initializing
	Slow Flash (On 0.1 sec , Off 2sec)	GSM signal receiving is normal, but no connection to server
	Constant On	GPRS Connected
	Off	No GSM signal

Function

Turn on device

- External power connect to turn on device——connect power cable, red wire to positive, black wire to negative, device will be on.
- Internal battery on——Switch ON/OFF button to ON

Turn off device

External power disconnect, device ON/OFF button off, device will be off. If only switch ON/OFF to off but external power connected, device is not off.

Charging

Device will be auto charged once connected to external power.

Moving and Stationary, Stationary Sleep and Deep Sleep

To determine whether or not to be stationary by G-sensor

- Moving, send location packet as preset GPRS time interval
- Stationary, no location packet sending

Stationary sleep and Deep Sleep:

- Stationary sleep, Stationary for more than 5 minutes, device GPS into sleep.

Awake from Sleep:

- Device wake up from sleep mode by vibration, open GPS

GPRS Time Interval

Device default GPRS time interval is 10s, could set by SMS command or GPRS command.

Initialization

After initializing device, domain/ip, IMEI, language, APN keeps no change. The other parameters restore factory settings.

Cut off petrol/opwer and Restore Petrol/power

Cut off petrol/power command works only after GPS positioned and speed less than 20km/h.

If device in sleep mode or gps invalid, after device receive command, device awake, after gps located and speed less than 20km/h execute the command.

Restore petrol/power works immediately in any case.

Reboot Device

Reboot device by command.

Domain/IP, Port setting

Set domain/ip, port via SMS or GPRS command.

SOS numbers setting

Set SOS numbers via SMS or GPRS command.

Device Langauage

Set device language by SMS or GPRS command, support Chinese and English.

Arm and Disarm

- Arm, support manually arm and automatically arm.

- ◆ Manually arm set by GPRS command. Once device arm, vibration will trigger alarm.
- ◆ Automatically arm, device will automatically arm by ACC status detection, need set automatically arm time (default set is 10mins. If set 0, disable this function)
After ACC from ON to OFF for 10mins, device automatically arm. Vibration will trigger alarm unless ACC ON.
Automatically arm status: after ACC from ON to OFF, device automatically arm; After ACC from OFF to ON, device automatically disarm.
- Disarm gprs command only work with Manually Disarm.

Ask for location

Device report current location immediately once received this command.

Vibration alarm

- After triggering vibration alarm, device will send alarm to server, every 10mins can only send one.

External Power Cut Alarm

- External power disconnection time lasts 5s or more before triggering a power cut alarm, every time power cut will be reported to server.

Low battery alarm

No external power supply, the internal battery voltage is too low (less than 3.4V), will report a low power alarm

Speeding alarm

Set speed and duration by gprs command, when exceeding the set speed and duration, send the speed alarm to the server.

SMS Alarm

Device send SMS alarm to SOS number if trigger vibration alarm, power cut alarm, sos alarm.

SMS Command List

By sending SMS commands, the user can set up and query parameters of the device, the text message instruction format, see table 1.

- The following SMS commands are no case-sensitive, and all sent commands have a reply.
- Send the corresponding query command device will reply to the corresponding query content
- Cut off Petrol/power request set SOS number, for the other commands, device defaults to accept any number of mobile phone sent SMS command.

SMS Command List

Commands	SMS Command Format	Explanation	Example Reply from Tracker
Query Location (In coordinates)	where#		Latitude: N22.570490, longitude: E113.857607, heading: 000.00,speed:000.0. The date/time: 2016-04-15 10:34:32
Query Location (In address)	123#		GPS: 4187 Bao An Da Dao, Baoan Qu, Shenzhen Shi, Guangdong Sheng, China, 518126 http://www.gpscar.cn/SimpleMap.aspx?n=22.58963,113.85235 Reply when no GPS signal: GPS not fixed, please wait for a while, and then try again.
Query Location (In URL)	url#		<04-13 15:31> http://maps.google.com/maps?q=22.589713,113.851927 If device no GPS location, reply: No Data
Set Time Interval	TIMER,T#	Unit = second, minimum time interval is 10seconds	The interval set successfully! Interval is 10S
Reboot Device	Reset#		Device will restart after 30 seconds!
Query Device Parameter	param#	Reply including: IMEI, Time interval, SOS number, Auto Arm time, Time zone	IMEI:868201512230013; GPRS Interval:15; SOS:,,;Defense time:10; TimeZone:E,8;

Cut off Fuel/power(send this command from SOS phone number)	TC#		① Normal Answer: Oil and electricity cut off successfully. ② Repeat Command: Cut off power repeat! ③ GPS No signal:The directive issued success until after GPS fixed. ④ Speed faster than 20km: The directive issued success until after the vehicle speed is less than 20km/h.
Restore Fuel/Power (send this command from SOS phone number)	TCT#		Restore fuel successfully!
Set Domain	server,1,gps.g ps688.com,80 11#		Domain set successfully!
Set IP	server,0,120.7 6.27.205,8011 #		Ip set successfully!
Set Language as Chinese	lang,cn#		语言设置成功!
Set Language as English	lang,en#		Language set successfully!
Set Sensor Sensitivity	DB35#	Note: (DB range 1-100, 1 means the maximum)	Vibration sensitivity set successfully! Sensitivity is 35.
Set auto Arm Time	Defense,T#	T is the auto arm time, unit = minute 0 means close	OK
Set APN	APN,APN,APN Name, APN Password#	Eg.: APN,cmnet,, (Note, when there is no APN name and password, use ,,)	APN is+apn (Eg.: APN is cmnet)
Set SOS Number	SOS,A,NO.1,N o.2,No.3#		SOS is(1:18565631592,2:,3☺;
Delete SOS Number	SoS,D,1,3#		SOS deleted successfully! (1:,2:,3☺;
Enable Vibration Alarm	senalm,on#		OK!
Disable Vibration Alarm	senalm,off#		OK!
Query Arm Status	Defense#	Reply as per device current arm Status	Defense: on/defense: off!
Initialization	factory#	Domain, IMEI, Language, APN will be no change	Device will start formatting and restart!

Query Version	Version#	Reply including IMEI, IMSI, Firmware Version, APN, Domain/IP, Language, Time Interval	IMEI:868201512230013 IMSI:9460018994026952 sw verno:T16_V1.43_SENSOR_20160413_CN apn:cmnet,, server:gps.gps688.com,8011; lang:en interval:10s
Query Device Status	status#	Reply including IMEI, GSM signal, GPS signal, APN, Doman/IP, Server Connection Status, Power Status	IMEI:868201512230013;gsm:100%; gps:8;apn:cmnet,,;server:gps.gps688.com,8011;server conn:OK;
Change IMEI	IMEI,355551234567890#		IMEI is 868111601085496
Set Time Zone	timezone,-2#	+ mean eastern time zone -mean western time zone	Time zone is set successfully!
Set Heartbeat Time Interval	Heart,1#	Unit = Minute	OK
Set External Power to trigger deep sleep	external voltage,min 10.8V,max 12V#	Min: the minimum power voltage. Device GSM, GPS module will be closed when external power lower than this value. Max: the maximum power voltage	external voltage set successfully! Note: this command is to save tracker power when external power low. As above sample, we set when external power lower than 10.8V, tracker will automatically enter deep sleep, GPS and GPRS will stop working. When external power goes to 12V, tracker will awake and keep working.
Enable Sleep Mode	dormancy,on#	Device will enter sleep when it's stationary	OK!
Disable Sleep Mode	dormancy,off#		OK!
Filter GPS Wobble	Driving speed ,3#	3 means 3km/h Device will filter the location data which moving speed slower than 3km/h	OK!
Enable GPS Log when no GSM connection	Blinds,on#	Device will store location inside and send it again when there is GSM connection. Could store 500-1000 GPRS location data	OK!
Disable GPS Log when no GSM connection	Blinds,off#		OK!