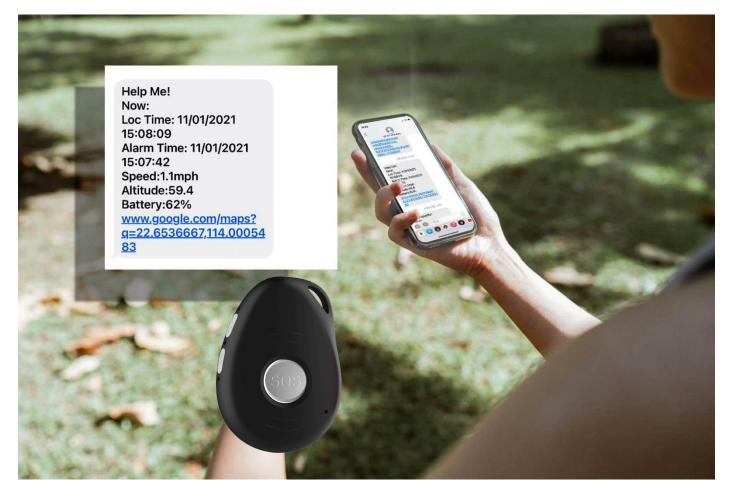


Mercari Personal Alarm SMS Protocol



Date: Jan.-2024



Abstract

This document, first of all, provides a quick start list, selecting the most frequently used SMS commands, to help you do the very first sample test.

Secondly, the chapter "general SMS commands" gives the most details respect to each command, in 4 parts, structure, explanations, example, and reply. With a full comprehension of these, you can configure the device in a highly flexible way, as well as to receive relevant Information from it.

In the third section, you can find some particular commands for some product models, not compatible in the others. This difference comes from that in capability of these models.

Last but not the least, some information about working mode and functions are displayed as appendix.

Important to note

- There should be no space " " in any command;
- Comma "," is obligatory as indicated;
- Both capital letter (ABC) and lower-case one (abc) work;
- Please check the SIM card status, if you did not receive any SMS reply from device;
- The SMS format may not be correct, or no credit on the SIM card.
- There are some particular sim cards that don't support SMS, like some IOT, or GPRS-only cards. Voicemail may also need to be set up first.Please confirm with your SIM card provider;
- In some cases, one long SMS (>150 bytes) can be split into two ones, thus possibly disabling the map link. Please consult your SIM card provider.
- In every section, you can come back to catalog by clicking "back to catalog";



It's compatible for:



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Catalog

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1. Most Frequently used SMS Commands (Quick Start List

Item	Command Structure	Command Example
Set Contact Numbers	A1,1,1,(phone number)	A1,1,1,123456789
Set SMS Password	P(password)	P123456
Request Location	loc	loc
Wi-Fi ON/OFF	Wifi(0=off, 1=on)	Wifi1
Microphone Volume	Micvolume(volume)	Micvolume10
Speaker Volume	Speakervolume(volume)	Speakervolume90
Prefix	Prefix(0=off, 1=on),(prefix name)	prefix1,Emma
Check Battery Status	battery	battery
Fall Down Alarm	fl(0=off, 1=on),(sensitivity1-9),(0=no call,	fl1,5,1
	1=call)	
No Motion Alarm	nmo(0=off, 1=on),(no motion time), (0=no call, 1=call)	NMO1,80M,1
APN	S(0=no call, 1=call),(apn)	S1,internet
Server	IP(0=no call, 1=call),(server IP),(port number)	IP1,www.smart-locator.com,6060
GPRS	S(0=of,2=on)	S2
	Mode1	mode1
	Mode2,(motion interval),(no motion interval)	mode2,03M,01h
Morting Mode	Mode3,(interval)	mode3,01H
Working Mode	Mode4,(interval)	mode4,30m
	Mode5,(interval)	mode5,10h
	Mode6,(motion interval),(no motion interval)	Mode6,03M,01h
Continuous Locate	CL(interval),(duration)	CL10s,600s
Check Function Settings	status	status



2. General SMS Commands

The general SMS commands are compatible for product models EV-07B series, EV-04, EV-05.

G.1 Contact Numbers

Setting contact numbers is the very first step for the device to work. This contact number list is the foundation for all the functions related to calling and sending SMS: SOS, fall down alarm, tilt alarm, no motion alarm, whitelist, etc.

1. Contact Numbers			
1.1 Set Contact Numbers			
Structure	A(n),(SMS Yes/No),(call	A(n),(SMS Yes/No),(call Yes/No),(phone number)	
	(n)	Value range: 1~10 Contact number sequence	
	(SMS Yes/No)	Value range: 0~1 0 - Do not receive SMS when there is an alarm 1 - Receive SMS when there is an alarm	
Explanation	(call Yes/No)	Value range: 0~1 0 - Do not receive Call when there is an alarm 1 - Receive Call when there is an alarm	
	(phone number)	Mobile number, Landline or emergency services.	
Example	A1,1,1,00123456789 NOTE: Contact phone front of country code	NOTE: Contact phone numbers should be in international format with 00 in	
Reply	Set contact number 1 ok.		
1.2 Check Contact Numbers			
Structure	A?		



Explanation	To check the current status of contact number list	
Example	A?	
Reply	A1: 1,1,15899795842 A2: 1,0,13632770106 A3: 0,1,15986236978	
1.3 Remove Contact Numbers		
Structure	removeA(n)	
Explanation	To remove contact number "n" Value range: 1~10	
Example	removeA5	
Reply	Contact number 5 removed.	



G.2 Password

- With this command sent, a password will be required in head of all commands. For example:
 321654Loc, 321654A1.
- The preset password won't be erased by changing a new sim card.
- Be sure to remember the new password, otherwise, you must ask your distributor to reset to factory settings in case the password forgotten.
- <u>Make sure the password is of 6 digits</u>, if not the tracker cannot recognize the password.

2. Password			
2.1 Set Password	2.1 Set Password		
Structure	P(password)		
Example	P321654 Password must be 6 digital numbers and the first bit cannot be "0"		
Reply	Set password ok.		
2.2 Change Password			
Structure	(old password)P(new password)		
Example	321654P123456		
Reply	Your password has been changed successfully.		
2.3 Delete Password			
Structure	(password)P0		
Explanation	<pwd> Your current password.</pwd>		
Example	123456P0		
Reply	Password deleted successfully.		



G.3 SMS White List

Device will receive SMS only from contact numbers on Whitelist.

NOTE: Contact phone numbers should be in international format with 00 in front of country code

3. SMS Whitelist		
Structure	sms(n)	
Explanation	0=whitelist off, 1=whitelist on	
Example	sms0	
Reply	Allow device to receive text message from all numbers.	
Example	sms1	
Reply	Allow device to receive text message only from authorized numbers.	



G.4 SOS Alarm Settings

To set the way to activate the SOS, ring time and talk time.

N means N*0.1 second. (20 means 20*0.1 seconds= 2 seconds)

4. SOS Alarm Settings			
4.1 SOS Button			
Structure	SOS(mode),(time)		
Evolution	(mode)	1=long press, 2=double click	
Explanation	(time)	(Value range: 1~100)*0.1 second	
Example	SOS1,20		
Reply	Set long press 2 seconds ok.		
It means long pres	ss 2 seconds to trigger SOS alarm		
Example	SOS2,20		
Reply	Set double click 2 seconds ok.		
Double click SOS	button in 2 seconds to trigger SO	S alarm	
4.2 SOS Alarm F	Ring Time and Talk Time		
Structure	soscall(ring time),(talk time)		
Evaluation	Ring time means ringing maxima Value range: 1~60 seconds	lly for xxx seconds, then call to next contact number	
Explanation	Talk time is the maximal time to t Value range: 0~65535 seconds	alk during a call	
Example	Soscall35S,20m		
S=seconds, m=minutes, h=hours			
Reply	Set ring time 35 seconds, talk time 20 minutes ok.		
4.3 SOS Call Loops			
Structure	ure Loop(time)		



	Value range: 0~10 loop means SOS calling cycles to all authorized number
Explanation	0=infinite loop
	1=only once
Example	Loop5
Reply	Set SOS loop 5 times ok.

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G.5 Request Location

After sending LOC, the device will be looking for the signal of Bluetooth, Wi-Fi and GPS, if the Bluetooth location is fixed, the device will stop searching for Wi-Fi and GPS signals.

5. Request Location			
5.1 Location	5.1 Location		
Structure	Loc		
Example Reply	GPS Loc! Now: Loc Time:07/04/2021 17:36:44 Speed:0km/h Altitude:97.0 Battery:57% www.google.com/maps?q=22.6537233,114.0006070		
5.2 GPS Location			
Structure	Loc,gps		
Explanation	The device will be only looking for the GPS signal. The device only searches GPS location for a maximum of 3 minutes, if up to date GPS location is not available, the device will reply last known GPS location.		



G.6 Bluetooth - Only if Charging Base Station purchased separately

The device will not be looking for Bluetooth location if BLE0 is set. You can turn on or off the

Bluetooth positioning. Setting the location coordinates for the charging base is the very first step

to using the charging base. Charging Base Not included - sold separately

6. Bluetooth				
6.1 Keep Device Connec	6.1 Keep Device Connected to Charging Base via Bluetooth			
Structure	BK(n)			
Explanation	0=not always connected, 1=always connected			
Example	ВКО			
Reply	Stay Connection off.			
If the setting is BK0, the device will not stay connected to the charging base, even when the device is in the range of docking. Turn off Bluetooth to save battery if no base station has been purchased.				
6.2 Set Coordinates for C	6.2 Set Coordinates for Charging Base			
Structure	BL(latitude),(longtitude)			
Example	BL22.6180000,114.0360000			
Reply	Set BLE location ok.			
6.3 Turn on/off Bluetooth Location				
Structure	BLE(n)			
Explanation	1=on, 0=off			
Example	BLE0			
Reply	BLE loc off.			



G.7 Wi-Fi

To turn on/off Wi-Fi. It will detect Wi-Fi hot spot and transfers those MAC address to coordinates.

Users will receive Wi-Fi location if GPS location is not available.

7. Wi-Fi		
7.1 Turn on/off Wi-Fi		
Structure	Wifi(n)	
Explanation	0=off, 1=on	
Example	WifiO	
Reply	WiFi off.	
7.2 Set Map Link for Wi-Fi		
Structure	WIFIURL(http)/web/geolocation/%s/%s	
Explanation	Change Wi-Fi format when necessary. Note: Please ask your agent before making any changes	
Example	WIFIURLtracking.com/web/geolocation/%s/%s	
Reply	WIFIURL Set ok.	



G.8 LBS - Cell Tower Location

To turn on/off LBS. LBS location is fixed based on the cell-towers data which is received by device. Usually, the device will find the nearest cell tower and will show relative location near it. However, the LBS location provided by the device is usually much less accurate than other location methods. (when there is no GPS data, Wi-Fi or BLE, the system uses LBS as a backup.)

8. LBS		
7.1 Turn on/off LBS		
Structure	LBS(n)	
Explanation	0=off, 1=on	
Example	lbs0	
Reply	lbs off.	

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G.9 AGPS (May not be available in all areas)

Assisted GPS is a system that is often able to significantly improve startup performance or

time-to-first-fix and improve the GPS location to be more precise. GPS will search for the location,

starting from the area around this point, thus improving efficiency to provide location information.

9. AGPS			
9.1 Turn on/off AC	9.1 Turn on/off AGPS		
Structure	Agps(n)		
Explanation	0=off, 1=on		
Example	Agps0		
Reply	Agps off.		
9.2 Set AGPS Coordinates			
Structure	Agpsloc(n),(latitude,longtitude)		
Explanation	n=0, Do not Allow GPS to update coordinates from time to time.		



	n=1, Allow GPS to update coordinates from time to time.	
Example	agpsloc1,114.1234567,22.1234568	
Reply	AGPS Loc set ok.	
9.3 Check AGPS settings		
Structure	Agpsloc?	
Reply	AGPS Loc 1,1141234567,221234568.	

G.10 Side Buttons

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10. Side Buttons		
10.1 Upper Button		
Structure	X(n),(time)	
	n=0	Upper button does not call
Explanation	n=1-10	To call contact number n
Explanation	time	(Value range: 1~100)*0.1 second. For example, 20=long press 2 seconds
Example	X2,20	
Reply	Set to dial the A2 ok.	
10.2 Lower Button		
Explanation of functions (no SMS commands)		
Function 1	Double click the button to turn on/off voice prompts.	
Function 2	Press and hold button 3 seconds, and at the same time press the CALL2 button on the charging base, then the device and charging base will pair to each other via Bluetooth.	



G.11 Vibration

11. Vibration	
Structure	Vibrate(n)
	n=0, vibration off
Explanation	n=1, vibrate when user push SOS button, tilt alarm, fall alarm, incoming call, press side button, turn on/off device.
Example	Vibrate0
Reply	Vibration Off!

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G.12 Beep

This command is to control all the voice prompts on/off made by SOS, tilt, fall, motion alarms and other voice warnings.

12. Beep	
Structure	Beep(n)
Explanation	n=0, beep off
	n=1, vibrate when user push SOS button, tilt alarm, fall alarm, incoming call, press side button, turn on/off device.
Example	Beep0
Reply	Beep Off!



G.13 Call

To set rules in calling and answering calls.

13. Call			
13.1 Incoming Call	13.1 Incoming Call		
Structure	callin(n)		
	n=0, All numbers can call in		
Explanation	n=1, Only authorized numbers can call in		
	To decide who can call the device		
Example	callin0		
Reply	Allow all numbers to call in.		
13.2 Answering the	Incoming Call		
Structure	Answer(n),(time)		
	n=0, automatic answering the call		
	n=1, press any button to answer the call		
Explanation	Value range: 1~10 seconds automatic answering the call after how many seconds ringing.		
	The way to answer the incoming call.		
Example	Answer0,5		
Reply	Set automatic answering call ok.		
Example	Answer1		
Reply	Set to press the button to answer the call ok.		
13.3 Hang up the Call			
Structure	Hangup(n)		
	n=0, users cannot hang up on their own		
Explanation	n=1, user can hang up the call by press SOS button		
	The way to hang up the call		
Example	Hangup0		



Reply	Set hangup0 ok.	
13.4 Call Back		
Structure	Callback(phone number)	
Explanation	Device will call the set number immediately after the message is sent.	
Example	Callback123456789	
Reply	call 123456789 ok.	
13.5 Stop call sequence		
Structure	scs(n)	
Explanation	When a call is connected, it will not call the next contact	
Example	scs1	
Reply	Stop calling sequence set OK!	
Example	scs0	
Reply	Allow calling sequence set OK!	

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G.14 Voice Volume

To set the volume of incoming call ringtone, microphone, speaker, and voice prompts. Speaker can be turned on and off for SOS call, and call through the side upper button.

14. Volume		
14.1 Incoming Call Ringtone Volume		
Structure	RT(level)	
Evolution	Volume range: 0~100	
Explanation	Volume adjustment for a ringtone	
Example	RT50	
Reply	Set ringtone volume 50 ok. (incoming call)	
14.2 Microphone Volume		
Structure	Micvolume(level)	



Evaluation	Volume range: 0~15	
Explanation	Microphone volume adjustment for two-way talking	
Example	Micvolume10	
Reply	Set microphone volume 10 ok.	
14.3 Speaker Volume		
Structure	speakervolume(level)	
Explanation	Volume range: 0~100	
Explanation	Speaker volume adjustment for two-way talking	
Example	Speakervolume90	
Reply	Set speaker volume 90 ok.	
14.4 Voice Volume		
Structure voice(level)		
Explanation	Volume range: 0~100	
Example	volume90	
Reply	Set voice prompt volume 90 ok.	
14.5 SOS Speaker Switch		
Structure	sosspeaker(n)	
	n=0, turn off speaker	
Explanation	n=1, turn on speaker	
	The speaker can be turned on/off if the call made by SOS alarm.	
Example	Sosspeaker1	
Reply	Turn on speaker ok. (SOS call)	
14.6 Call Button Speaker Sv	vitch	
Structure	Xspeaker(n)	
	n=0, turn off speaker	
Explanation	n=1, turn on speaker	
	The speaker can be turned on/off if the call made by CALL button	
Example	xspeaker0	
Reply	Turn off speaker ok. (call button)	



G.15 LED

15. LED		
Structure	led(n)	
Explanation	n=0, turn off LED	
	n=1, turn on LED	
Example	LEDO	
Reply	LED off.	

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G.16 Time Zone

The device clock time depends on the time zone, related to the time report, alarm clock, alarm time, location time, etc. Time Zone is UTC. ie New York = -5UTC (TZ-5)

16. Time Zone		
Structure	TZ(time zone code):(minute)	
Explanation	Value range: +00 ~ +14, -00 ~ -14	
	Minute=0/15/30/45	
Example	NY tz+1	
Reply	Set time zone +1 ok.	
Example	tz+10:15	
Reply	Set time zone +10:15 ok.	

USA UTC Standard time: Central -6, Mountain -7, Pacific -8, Alaska -9 New Zealand +12. Australia AEST +10, AWST +8, ACST +9.5. Uk +0. Europe CET +1 Singapore/Malaysia +8. Japan +9



G.17 Prefix - Device Name

To identify the device name, when receiving SMS messages from device.

17. Prefix		
Structure	Prefix(n),(text)	
Explanation	n=0, prefix off	
	n=1, prefix on	
	Text=prefix context Value range: maximum characters can be 100.	
Example	Prefix1,Emma	
Reply	Set Emma ok.	

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G.18 Battery

To set (up to 2) low battery alarms, and to check the battery status.

18. Battery		
18.1 Low Battery Alar	m 1	
Structure	Low(n),(level)	
	n=0, low power alarm off	
Explanation	n=1, low power alarm on	
	Value range: 0~100	
Example	Low1,15	
Reply	Set low power alarm 15% ok.	
18.2 Low Battery Alarm 2		
Structure	Lowuser(n),(level)	
Evaluation	n=0, low power alarm off	
Explanation	n=1, low power alarm on	



	Value range: 0~100	
Example	Lowuser1,20	
Reply	Set low power alarm 20% ok.	
18.3 Battery Status		
Structure	battery	
Reply	Battery: 88%	

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G.19 Find My Device

After the text message "findme" is sent to the device, device will play voice prompt "I am here" and last for 30 seconds, the voice prompt can be stopped by pressing the button when device is found.

19. Find My Device		
Structure	findme	
Reply	(no reply)	

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G.20 Turn off Device

20. Turn off		
Structure	off	
Reply (no reply)		



G.21 Device Information

To request information respect to IMEI, firmware version, device version.

21. Device Information		
Structure	V?	
Reply Example	IMEI:863921033969786 GSM signal quality: 15 Software version: V07BX.8601.2109 version: V1.0.37.1	

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G.22 Alarms

SOS, Fall down alarm, Geo-fence alarm, Motion alarm, Tilt alarm, No motion alarm, Over-speed alarm.

22. Alarms		
22.1 SOS Emergency Alarm		
Structure	(no command)	
Alarm Example	(no command) Help Me GPS Loc! Now: Loc Time:01/09/2021 09:46:51 Alarm Time:01/09/2021 09:46:33 Speed:0km/h Altitude:85.1 Battery:100% www.google.com/maps?q=22.6537455,114.0005853	



22.2 Fall Down Alarm			
Structure	fl(n),(sensitivity level),(call yes/no)		
	n=0	Fall alarm off	
	n=1	Fall alarm on	
Explanation	sensitivity level 1-9	. 1=least sensitive, 9=most sensitive	
	call yes/no	Value range: 0~1 0 – Do not receive a call when there is an alarm 1 – Receive call when there is an alarm	
Example	FL1,1,1		
Reply	Set fall down alarm ok!		
Alarm Example	Now: Loc Time:26/08/2021 11:23:55 Alarm Time:26/08/2021 11:23:48 Speed:0km/h Altitude:77.6 Battery:100% www.google.com/maps?q=22.6536771,114.0004660		
22.3 Geo Fence Alarm	(Only available with Mode3 se	etting- See G.26 Working Mode)	
Structure	Geo(n),(on/off),(leave/enter),(dis	tance)	
	n	Geo fence number value range: 1~4	
Explanation	On/off	0=off, 1=on	
	Leave/enter	0=leave, 1=enter	
	Distance	Value range: 100~65535 meters	
Suggestion	The distance should be no less than 100 meters		
Example	Geo1,1,0,100m		
Reply	Set geo fence 1 in, 100 M radius ok.		



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	Geo Fence alarm 1 i	
	GPS Loc!	
	Now:	
	Loc Time:28/08/2021 08:40:17	
Alarm Example	Alarm Time:28/08/2021 08:40:17	
	Speed:1km/h	
	Altitude:114.7	
	Battery:97%	
	www.google.com/maps?q=22.6583923,114.0004503	

22.4 No Motion Alarm		
Structure	nmo(n),(static time),(call Yes/No)	
	n	0=off, 1=on
Explanation	Static time	Value range: 60~36000 seconds
Explanation	S=seconds, M=minutes, H=ho	Durs
	Call yes/no	0=no, 1=yes
Example	NMO1,80M,1	
If device doesn't move (no motion) for 80 minutes, in 81 minutes, no motion alarm will be activated, device will send a text message or make a call immediately.		
Reply	Set no motion alarm 1 hour 20 minutes ok.	
Alarm Example	No Motion Alarm! GPS Loc! Now: Loc Time:01/09/2021 18:08:39 Alarm Time:01/09/2021 18:08:39 Speed:1km/h Altitude:86.3 Battery:76% www.google.com/maps?q=22.6536985,114.0005760	
22.5 Motion Alarm		
Structure	Mo(n),(static time),(duration time),(call Yes/No)	
Explanation	n	0=off, 1=on



		IVIERGANI	
	Static time	Value range: 60~36000 seconds	
	Duration time	Value range: 60~36000 seconds	
	S=seconds,M=minutes, H=hours		
	Call Yes/no	0=no, 1=yes	
Example	mo1,05m,03s,1		
Reply	Set motion alarm ok.		
Motion for 3 seco	onds after staying no motion for	more than 5 minutes	
Alarm Example	Motion Alert!3 seconds! GSM and WIFI-Loc: Loc Time:23/06/2021 17:25:12 Alarm Time:23/06/2021 17:24:45 Battery:100% smart-locator.com/web/geolocation/wg/YyK9- tAnYQQ4qaitPcGApKME07W3gZyqiPhyeFiwo2A6fBzFSalQK3MGyxGs8JK02afBqfCSt Ny9ma5 UdZU3SAexSA7s8OQ2pUAxPPdb_ryoFU3X96asZG6XwxLHpMCl3TofygspzAEBBT0IK cEeBg==		
22.6 Tilt Alarm			
Structure	Tilt(n),(degree),(duration time),(call Yes/No)		
	n	0=off, 1=on	
Explanation	Degree	Value range: 30-90	
	Duration Time	Value range: 10~3600 seconds	
	Call Yes/No	0=no, 1=yes	
Example	tilt1,45,30s,1		
Reply	Set tilt alarm 45 degrees ok.		

Device will make a 30 seconds warning beep (20 seconds is fixed, user can't modify the beep time) if the device is detected vertically tilt over 45 degrees and the tilt last for 30 seconds. After 30 seconds beep warning, device will send the alert to contact numbers. or If the device is automatically adjusted to less than 45 degrees before 30 seconds beep finish, the alarm will be automatically canceled.)



Alarm Example	Tilt Alarm GPS Loc! Now: Loc Time:12/08/2021 15:08:55 Alarm Time:12/08/2021 15:08:55 Speed:2km/h Altitude:97.2 Battery:100% www.google.com/maps?q=22.6538115,114.0006836	
22.7 Over Speed	d Alarm	
Structure	Speed(n),(speed)	
Explanation	n	0=off, 1=on
Explanation	speed	Value range: 20-400 km/h
Example	Speed0	
Reply	Over speed alarm canceled.	
Example	Speed1,100km/h	
Reply	Set over speed alarm 100km/h ok.	
Alarm Example	Over-speed alarm50km/h Now: Loc Time:13/07/2021 18:44:54 Alarm Time:13/07/2021 18:45:05 Speed:73km/h Altitude:32.1 Battery:100% www.google.com/maps?q=22.6645401,113.9950130	
22.8 Welfare Alarm - Welfare Timer		
Structure	Welfare <n>,<set time="" up="">,<warning time="">,<call no="" yes=""></call></warning></set></n>	
	n	0=off,1=on
Evolopation	Set up time	Value range: 600~360000 seconds
Explanation	Warning time	Value range: 120~600 seconds
	Call Yes/No	0=no,1=yes



Example	Welfare1,600,120,1
Reply	Welfare alarm.
Example	Welfare0
Reply	Welfare check off.
Alarm Example	Welfare Alert GSM and WIFI-Loc: Loc Time:23/06/2021 17:25:12 Alarm Time:23/06/2021 17:24:45 Battery:100% smart-locator.com/web/geolocation/wg/YyK9-tAnYQQ4qaitPcGApKME07W3gZyqiPhy eFiwo2A6fBzFSalQK3MGyxGs8JK02afBqfCStNy9ma5UdZU3SAexSA7s8OQ2pUAxPP db_ryoFU3X96asZG6XwxLHpMCl3TofygspzAEBBT0IKcEeBg==

To Start Welfare Timer - Press bottom side button for 2 seconds.

To 'Check in' during warning time/ to turn Welfare timer off - Press bottom side button for 2 seconds.

NOTE: Welfare Timer requires to be restarted after each 'check in'

G.23 Alarm Clock

Device will ring, or play voice prompts, when it's clock time.

23. Alarm Clock		
Structure	CLK(n),(on/off),(time),(type),(date)	
	n	Value range 1~4. Clock number
	On/off	0=off, 1=on
Explanation	time	00:00-24:00
	type	Value range 1~4. Voice/music type
	date	Value range 1~7. Monday to Sunday
Example	CLK1,0	
Reply	Alarm clock 1 off.	
Example	CLK2,1,19:30,3,1,2,4	
Reply	Alarm clock 2 on.	
Clock number2, at 19:30 with alarm type 3, play every Tuesday and Thursday		



G.24 No Disturb Time

Device will not make any sound even if someone calls. User will not hear any ringtone when there

is an incoming call, and device will not play any voice warnings at all.

24. No Disturb Time		
Structure	ND(n),(start time),(end time)	
	n	0=off, 1=on
Explanation	Start time	Value range: 00:00-24:00
	End time	Value range: 00:00-24:00
Example	ND1,19:00,06:00	
Reply	No disturb from 19:00 to 6:00 ok.	
Example	ND0	
Reply	No disturb off.	

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G.25 Internet Setting

To set APN, Heartbeat, Server. Heartbeat only works in mode 1,2,3,6.

25. Internet Setting			
25.1 APN	25.1 APN		
Structure	S1,(APN),(username),(password)		
	APN	APN set by particular operators	
Explanation	Username	(sometimes without)	
	Password	(sometimes without)	
To make device communicate with data, the user needs to set up the APN. - Some APN without user name and password, so please leave it blank. - Make sure that the SIM card in the tracker supports the internet function. - The APN can be acquired from your local cellular/network operators			
Example	S1,internet		
Reply	Set APN ok.		



25.2 Heartbeat (only required if connected to 3rd party online platforms)		
Structure	GPRSHB(time)	
	Time	Value range: 60~86400 seconds
Explanation	S=seconds,M=minutes, H=hours	
	Time=0	Heartbeat off
The heartbeat packet function when the interval of schedu	ion is used to keep the Transmission Contr led GPRS reporting is long	ol Protocol (TCP) connection open
Example	GPRSHB5M	
Reply	Set heartbeat 5 minutes ok.	
25.3 Server IP&Port		
Structure	IP(n),(IP/domain name),(port)	
	n	0=off, 1=on
Explanation	IP/domain name	Server IP
	port	Server port
Example	IP1,www.smart-locator.com,6060	
Reply	Set IP ok.	
Example	IPO	
Reply	IP connection disabled.	
25.4 GPRS Connection		
Structure	S(n)	
Explanation	n=0, GPRS off	
Explanation	n=2, GPRS on	
Example	S2	
Reply	GPRS is connecting.	
25.5 Check GPRS Settings		
Structure	GPRS?	



	GRPS: ON
	APN: internet
	Username:
	Password:
Reply Example	IP: 1, www.smart-locator.com
	Port: 6060
	Move report time: 30 minutes
	No move report time: 60 minutes
	HB: on, 20 minutes



G.26 Working Mode

There are currently 6 working modes. Please check appendix 1 and the document 'Working mode'

to know more details.

26. Working Mode			
26.1 Mode 1			
Structure	mode1		
Reply	Set mode 1 ok.		
26.2 Mode 2			
Structure	mode2,(movement time interva	al),(no movement time interval)	
Employetter	movement time interval	Data update interval when moving	
Explanation	no movement time interval	Data update interval when not moving	
Value range for 30~8	36400 seconds, H=hour, M=min	ute, S=second	
Example	mode2,03M,01h		
Reply	Set mode2, 3 minutes,1 hour of	ok.	
26.3 Mode 3 - GPS	Always on (Use for GEOFEN	NCE)	
Structure	Mode3, (time interval)		
Explanation	Time interval	Data update interval when Moving or not moving	
Value range for 30~8	36400 seconds, H=hour, M=min	nute, S=second	
Example	mode3,01H		
Reply	Set mode3, 1 hour ok.		
26.4 Mode 4			
Structure	Mode4, (time interval)		
Explanation	Time interval	Data update interval when Moving or not moving	
Value range for 60~604800 seconds, H=hour, M=minute, S=second			
Example	mode4,30m		
Reply	Set mode4, 30 minutes ok.		
26.5 Mode 5			
Structure	mode5, (time interval)		
Explanation	Time interval	Data update interval when Moving or not moving	
Value range for 1200)~604800 seconds, , H=hour, M	=minute, S=second	
Example	mode5,10h		



Reply Set mode5, 10 hours ok.

26.6 Mode 6

(Same as mode 2)

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G.27 Continuous Locate - For 3rd party online platforms

Continuous locate function will be activated automatically in case of SOS alarm, to track

continuously at certain intervals(Seconds), for several minutes.

27. Continuous Locate		
Structure	CL(report interval),(duration time)	
·	report interval	Value range: 10~600 seconds
Explanation	duration time	Value range: 60~1800 seconds
H=hour, M=minute, S=second		
Example	CL10S,600S	
Reply	Set live tracking every 10 seconds and last for 10 minutes ok.	

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G.28 Stop Sending Stored Historical Data to Server. (online platforms)

28. Stop Sending Historical Data to the Server		
Structure flush		
Reply Flush ok!		



G.29 Check Function Settings

Check the current settings.

29. Check Settings		
Structure	status	
Reply	Mode:4,0 second LED: on Beep: on Vibration: on Time zone: +10:00 GEO Fence:0,0,0,0 Motion alarm: off No Motion alarm: off Tilt alert: off Fall alarm: on, level:5 Low power alarm: on,15% SOS Call:10 minutes, loop:1 side: 3 RT: 100 MIC: 9 Volume: 90	

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G.30 Set GPS Map Link

To change GPS map link format when necessary (When connecting 3rd Party online tracking)

	30. Set GPS Map Link
Structure	GPSURLwww.google.com/maps?q=%.7f,%.7f
Reply	GPSURL Set ok.



G.31 Beacon - Sold separately.

To set, add, delete and check Beacon list. To set Beacon leave home alert.

31. Beacon			
31.1 Delete Beacon List			
Structure	BCD		
Reply	Delete beacon list successfully.		
31.2 Automati	cally Add Beacon List		
Structure	BCA(coordinates),(location name)		
Evolution	coordinates	latitude,longitude	
Explanation	location name	For example, home, office, garden	
To automaticall	y add Beacons nearby, with RSSI >	> -60	
Example	BCA 22.6535181,114.0009472,of	fice	
Reply	Add successfully Beacon (mac ac	ldress).	
31.3 Set Beac	on List		
Structure	BCS(coordinates),(mac1),(location	n name1);(mac2),(location name2);	
	coordinates	latitude,longitude	
Explanation	mac	Beacon mac address	
	Location name	For example, home, office, garden	
You can set onl	ly one location in one command, ar	nd you can set more than one beacon for one location.	
Example	BCS22.6535181,114.0009472,f7:37:b7:10:81:ce,room1;E6:6F:80:A9:61:5D,room2		
Reply	Beacon list set OK.		
31.4 Check Beacon List			
Structure	BCQ(n)		
Explanation	n Check from Beacon (n)		
Example	BCQ1		

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	1,F7:37:B7:10:81:CE,office1					
Reply	2,C4:9F:A6:15:24:3F,office2					
	3,D3:E3:AC:86:5E:46,office7					
	4,DF:19:ED:B3:63:4C,room1					
	5,DF:79:14:AF:36:87,room9					
	6,EA:D9:02:05:82:61,room3					
	7,F1:19:79:42:18:21,room4					
	8,CD:B1:31:A7:BB:F9,room2					
	9,F3:64:2A:58:FB:57,room8					
	10,F9:2A:AB:5A:2E:E3,room6					
31.5 Turn on/o	31.5 Turn on/off Beacon Location					
Structure	BCE(n)					
Explanation	n=0	Beacon off				
	n=1	Beacon on				
Example	BCE1					
Reply	Beacon loc is enabled!					
31.6 Beacon L	eave Home Alert					
Structure	Beaconalert(n)					
Explanation	n=0	Beacon alert off				
Explanation	n=1	Beacon alert on				
Example	Beaconalert1					
Reply	beacon leave home alert enable.					
	Letter and the second se					



G.32 Home Wi-Fi List. Set/detect home wifi signal location

To set, add, delete and check Home Wi-Fi list.

32. Home Wi-Fi List					
32.1 Delete Ho	32.1 Delete Home Wi-Fi List				
Structure	WFD				
Reply	Delete home wifi list successfully.				
32.2 Automati	32.2 Automatically Detect/Add Home Wi-Fi List signals				
Structure	WFA(coordinates),(location nam	ie)			
Explanation	coordinates	latitude,longitude			
	location name	For example, home, office, garden			
Note; Signals re	eceived may be from neighboring	properties			
Example	WFA22.6535181,114.0009472,office				
Reply	Add successfully Home WiFi (mac address).				
32.3 Set Home	e Wi-Fi List. Manual setting ho	me wifi location.			
Structure	WFS(coordinates),(mac1),(location name1);(mac2),(location name2);				
	coordinates	latitude,longitude			
Explanation	mac	Home WiFi mac address			
	Location name	For example, home, office, garden			
You can set only one location in one command, and you can set more than one Home Wi-Fi for one location. ie, if you have multiple wifi signals or signal extenders within a home/office					
Example	WFS22.6535181,114.0009472,f7:37:b7:10:81:ce,room1;E6:6F:80:A9:61:5D,room2				
Reply	home wifi list set OK.				
32.4 Check Home Wi-Fi List					
Structure	WFQ(n)				

3.0 Troubleshooting

Device is turned on but not communicating

Check that your SIM card has had its voicemail set up and the SIM has credit.

Check SIM is from a recommended Network or compatible frequency cellular network.

Ensure SIM is operating correctly buy removing it from the device and using it in a Smart phone. Make a call, send SMS, check voicemail.

Reinstall into device & restart.

I have installed a working SIM card, but it is not responding

Give the device a restart. Check details above. If still not operating, check that the SIM card holder pin connectors have not been damaged during SIM card installation. Any broken, missing or missshaped connectors will cause the unit to be non responsive. Damage to SIM card holder connectors is not covered under warranty.

Check your network provider or issues or try a SIM card from a different compatible provider.

I'm sending the SMS but the device is not responding

Make sure there are no spaces when sending SMS commands. Commands for feature 'on' and 'off' are 1(one) & 0(zero)

Check that the number you are send the SMS to is the same as installed in the device

It says I don't have a GPS location.

It means the device has lost track of the satellite signals. Leave by a window for 15-30mintues to allow it to reacquire the signals. If the device is not seeing a good GPS signal, it will revert to Wifi or Cell Towers (LBS).

My GPS location is not accurate.

GPS location is dependent on a variety of factors and can be inhibited yb environmental factors such as buildings, aerials and trees. Check loc,gps when in full view of sky to get accurate readings.

The GPS Link appears broken within the SMS.

The network SIM being used is going through changes or having issues causing the broken SMS link. Network upgrades can take days to complete. Please check with your SIM card provider for details of any works or upgrades in your area. The broken link may rectify itself over time. Try restarting the device and setting the APN. Please note, this problem is usually localized and your contacts will likely receive a working link.

If the problem persists, you may wish to change the SIM card to an alternate provider.

Some networks have limitations on SMS character length which will cause broken links. Try a different SIM card carrier.

My device sends & receives SMS but call function is not working.

Check your calling functions have not been accidentally turned off whist setting up. Test in another location as it may be due to network issues or lack of signal. Try a different carrier SIM card that is compatible with the device Check the SIM card holder to ensure no pins have been broken during installation



Appendix 1 Summary of Working Modes

Working Mode		Mobile network	Mobile data	Heartbeat	Interval	Call	SMS	Update location
Mode 1		Always on	Always on	Up to you	No	Anytime	Anytime	Only in events
Mode 2	moving	Always on	Always on	Up to you	Yes	Anytime	Anytime	Events& interval
	No-move	Always on	Always on	Up to you	Yes	Anytime	Anytime	Events & interval
Mode 3	moving	Always on	Always on	Up to you	Yes	Anytime	Anytime	Events & interval
	No-move	Always on	Always on	Up to you	No	Anytime	Anytime	Off
Mode 4		Always on	Events & Interval	Off	Yes	Anytime	Anytime	Events & interval
Mode 5		Off	Events & Interval	Off	Yes	Only SOS	Only SOS	SOS
Mode 6	moving	Always on	Always on	Up to you	Yes	Anytime	Anytime	Events & interval
	No-move	Always on	Always on	Up to you	Yes	Anytime	Anytime	Events & interval
Data-off Mode (Default Factory mode)		Always on	Off	Off	/	Anytime	Anytime	Off



Working Mode		GPS	Positioning methods of priority	
Mode 1		Only in events	BLE/Beacon \rightarrow Home Wi-Fi \rightarrow GPS \rightarrow Wi-Fi & GSM	
Mada O	moving	Events & interval	BLE/Beacon \rightarrow Home Wi-Fi \rightarrow GPS \rightarrow Wi-Fi & GSM	
Mode 2	not moving	Off	BLE/Beacon→Home Wi-Fi→Wi-Fi & GSM	
Mode 3	moving	Always on if no BLE/Beacon, marking every 100min	BLE/Beacon→Home Wi-Fi→GPS→Wi-Fi & GSM	
	not moving	Off	/	
Mode 4		Events & interval	BLE/Beacon→Home Wi-Fi→GPS→Wi-Fi & GSM	
Mode 5		SOS	BLE/Beacon→Home Wi-Fi→GPS→Wi-Fi & GSM	
Mode 6	moving	Events & Activated 3 minutes before interval	BLE/Beacon→Home Wi-Fi→GPS→Wi-Fi & GSM	
	not moving	Off	BLE/Beacon→Home Wi-Fi→Wi-Fi & GSM	
Data-off mode		SOS	/	



Appendix 2 Function List

Functions		Action	Scenario		
1		SOS	Call, SMS, TCP alert, Continuous locate	Any emergency	
2	Cellphone	Receive Call	ringtone	Like a cellphone	
3		Call1	Call someone on contact list	Like a cellphone	
4		GPS		Like a tracker	
5	Positioning	Bluetooth	Provide location	Near Docking/Beacon	
6		Wi-Fi&GSM		When no GPS/BLE	
7	Sensor	Fall alarm	Call, SMS, TCP alert	When people fall	
8		Tilt alarm		Coma, shock	
9		No motion alarm		Coma, shock	
10		Motion alarm		Asset tracking	
11	11 Overspeed Alert			Driving too fast	
12	12 Low battery alert		SMS, TCP alert	Battery low	
13	13 Power on alert			Turn on	
14	14 Power off alert			Turn off	
15	15 Geo fence			Leaving home/area	
16		Home Wi-Fi		Come home	
17		Beacon	SMS, TCP alert		
18		Beacon fence alert		Come/leave home	
19	19 Alarm clock		Voice	It's time to get up,do exercise, take medicine, sleep	
20	20 Find me			I'm here	



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