



MV55G User Manual V1.0

Learn how to set up your new MiCODUS Tracker

1. Main Features



4G+3G
+2G



Real-time
Tracking



Historical Route
Playback



140mAh



4G WiFi Hotspot
(Optional)



Overspeed
Alarm



Vibration
Alarm



Movement
Alarm



Plug Out
Alarm



Geo-fence



Engine Start/
Flameout Alarm

2.Specifications

Device Information	Model	MV55G
	Weight	80g
	Dimensions	59mm(L) * 45mm(W) * 22mm(H)
	Battery Working Time	Tracking Mode : 1-2 hours
Working Parameters	Working Voltage	DC 9V - 50V
	Battery Capacity	3.7V 140mAh Lion Polymer battery
	Working Temperature	-20 C - 75 C
	Working Humidity	10%-85%RH non-condensing
Cellular Specifications	Working Frequency	MV55G(EU): 4G LTE-FDD: B1/B3/B7/B8/B20/B28; 4G LTE-TDD: B38/B40/B41; 3G WCDMA: B1/B8; 2G GSM/EDGE: B3/B8;
	SIM Card	Micro SIM Card
	Cellular Antenna	Built-in
		MV55G(AU): 4G LTE-FDD: B1/B2/B3/B4/B5/B7/B8 /B28/B66; 4G LTE-TDD: B40; 3G WCDMA: B1/B2/B4/B5/B8; 2G GSM/EDGE: B2/B3/B5/B8;

GNSS Specifications	Positioning Type	GPS+BEIDOU+LBS
	GPS Antenna	Built-in
	Cold Start	≤32 Seconds
	Hot Start	≤1 Second
	Tracking sensitivity	-162 dBm
	GPS Channels	64
	Position Accuracy	5-10m

3. Activate Device

Install the SIM card via the correct direction as below:



LED	Event	State
POWER LED (RED)	Charging	Solid
	Charger inserted and battery has been fully charged	Dark
	Charger has not been inserted	Dark
CELL LED (YELLOW)	Searching for network	Flash every 1 second
	Network has been registered	Solid
GPS LED (BLUE)	GPS is in fixing	Flash every 1 second
	GPS has fixed	Solid
ALL LED	Device is working but stopped more than 5min	ALL LED TURN OFF
	Device has not been turn on	
	Device ran out of battery	

Please get the exact correct APN name from local SIM card provider. Take the tracker to a good signal place for operation and configure the APN for it as below:

SMS Command Format	Reply	Example	Note
APN,ApnName,User, Password#	SET APN OK	APN,orange, orange,orange#	If the SIM card has APN user and APN password, then use this command.
APN,ApnName#	SET APN OK	APN,internet#	If the SIM card operator doesn't have APN user and APN password, then please use this command.

Note: The APN information is very important, it must 100% correct to match with the sim card of the tracker, if you configured wrong APN, the tracker also will reply "SET APN ok" but it will can't get online!

4. Package Content

GPS Main Unit	x 1
User Manual	x 1
Quick User Guide	x 1
Genuine Packing Box (Optional)	x 1
OBD Extension Cable (Optional)	x 1

5. Functions Explanation

Please follow with the quick user guide carefully!

a. Vibration Alert:

This vibration alert function just work under stationary status. How to use this function:

* First Step:

Configure SOS numbers for the tracker by this sms command:
SOS,A,1st number,2ndnumber,3rd number#
3 SOS numbers supports at the most.

* Second Step:

Enable the device to enter into arm mode by this sms command: **ARM#**

* Third Step:

Configure the alarm ways by this sms command: **SENALM,[A],[M]#**

A=ON/OFF, default: OFF;

M=0/1/2, way of alarming, (0 :Platform only, 1: SMS+Platform, 2: Platform+SMS+phonecall, Default:1)

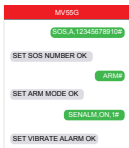
* Fourth Step:

Keep the device under stationary status more than 5min to let it enter into sleep arm mode;

* Five Step:

Vibrate the device then the tracker will send the vibration alarm messages.

For example:



b. Engine Status Change Detection :

Once the OBD tracker detected engine start or flamout it will send alarm message out, and the alarm ways is configurable by SMS, call and tracking platform.

* First Step:

Configure SOS numbers for the tracker by this sms command:

SOS,A,1st number, 2nd number,3rd number#

3 SOS numbers supports at the most.

* Second Step:

Configure the alarm ways via

this SMS command: **ACCALM,ON,A,M,N#**

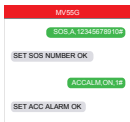
Alarm ways: A=ON/OFF, Default: ON;

M=0/1/2 (way of alarm)(0 : GPRS only, 1: SMS+GPRS,

2: GPRS+SMS+CALL, Default:1);

N=0/1/2; (0: ACC ON&OFF Alarm; 1: ACC ON Alarm; 2: ACC OFF Alarm; Default:0)

For example:



c. Plug out alarm :

If someone plug out the device it will send alarm message out, and the alarm ways is configurable by SMS, call and tracking platform.

* First Step:

Configure SOS numbers for t

he tracker by this sms command:

SOS,A,1st number,2nd number,3rd number#

3 SOS numbers supports at the most.

* Second Step:

enable this function by this command: **PWRALM,A,B#**

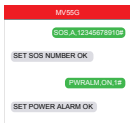
A =ON/OFF, Default:ON;

Ways of alarming:

B=0/1/2 (0: Platform only, 1: SMS+Platform,

2 :Platform+SMS+Call, Default:2)

For example:



6. Installation Recommendation

Where is the OBD interface?

Most of the car's OBD interface is located in A and B, A small part of the car will be in C,D and E.



Area A

VW、Ford、 Toyota 、 Hyundai 、 Citroen、 BMW、
etc./Most cars.

Area B

Honda,Lexus,etc.

Area C

Dongfeng Citroen,etc.

Area D/E

A few cars...

7. Troubleshooting

Type	Use
Unable to connect to tracking platform	Check the APN and settings. Check whether the data service of SIM card is enabled. Check the balance of SIM card.
Tracker shows offline	Check whether external power is still connected. Check if the vehicle entered network blind area. Check the balance of SIM card.
Unable to locate	Make sure the top side facing upward without metallic things shielded. Make sure it's not in area with no satellite coverage.
Location drift	In area with poor GNSS signal (tall building around or basement), drifting may happen. Check whether vibration happens around to trigger the accelerator.
No command reply	Make sure command format is correct. Vehicle may be in network blind area. Make sure SIM card is well inserted and has SMS servi.

8. Full SMS Commands List

Functions	Command Format	Explanation
APN Setting	APN,Network name[name,password]#	APN,CMNET# (if no name & Password) APN,internet,internet,internet# (if with name & Password)
Server Setting	If set with Domain Name: SERVER,1,Domain,Port#	SERVER,1,d.micodus.net,7700#
	If set with IP: SERVER,0,IP,Port#	SERVER,0,47.254.77.28,7700#
Check IMEI	IMEI#	
Restore factory settings	FACTORY#	
Restart device	RESET#	
Internet Traffic Switch	INTERNET,ON#	
	INTERNET,OFF#	

Functions	Command Format	Explanation
Version Inquiry	VERSION#	
Parameter Inquiry	PARAM#	
Status Inquiry	STATUS#	BATTERY: XX% (Built-in Battery Power Percent) INTERNET: CLOSED (No Network) FAILED (Connecting Network or Failure) SUCCESS (Connected to Network) NET: NONE (No GSM Signal),HIGH / MED / LOW (Signal Strength) GPS: CLOSED (GPS Module Closed) , FIXED, N (Positioned and satellite number), UNFIX, 0 (Not Positioned yet) SPEED:30KM/H ACC: ON / OFF (ACC on or off) POWER: CONNECTED / DISCONNECTED (Power Connected or Disconnected), 12.5V (Vehicle battery voltage) SENSOR: ON/OFF (Sensor on or off), LEVEL: 3 (Sensitivity level 1-9) FORTIFIED STATE: ARM (Arm or Disarm)
Latitude&Longitude Inquiry	WHERE#	
Map URL Inquiry	URL#	
Address Inquiry	POSITION#	NOTE: Reply message's language is determined by device's language setting, if get position content failed, device will reply Google Map location link.
Time Zone Setting	GMT,Time zone orientation, Whole Time Zone[,Half Time Zone]#	GMT,E,8# (if no half time zone) GMT,W,9,30# (if has half time zone) NOTE: Parameter : E / W ; 0 ~ 12; 0/15/30/45
Set the angle upload	ANGLEREP,[X],[A],[B]#	X=ON/OFF, default: ON; A=5~180 degrees, diversion angle degree, default: 30 degrees; B=2~5 seconds, detecting time, default: 3 seconds,
	ANGLEREP,OFF#	
Mileage Statistics	MILEAGE,[A],[B]#	A=ON/OFF, On/Off mileage calculation, default: Off B=0~999999, Mileage initial value, unit: km ; default: 0, mileage return to zero
	MIELEAGE#	Query current mileage
Add Center Number	CENTER,A,center number#	CENTER,A,13800138000# NOTE: Center number is only used for cutting off power & oil, it can only be set by SOS Administrator when using this command by SMS.

Functions	Command Format	Explanation
Delete Center Number	CENTER,D#	
Add SOS Administrator Number	SOS,A,1st number, 2nd number,3rd number#	Set 3 numbers at a time: SOS,A,13800138000,1380013800 1,13800138002# Set the first numberseparately: SOS,A,13800138000# Set the second number separately: SOS,A,,13800138001# Means to set 3rd number separately: SOS,A,,,13800138002#
Delete SOS Administrator Number	SOS,D,1st number, 2nd number,3rd number# or SOS,D,1,2,3#	Directly delete the number: SOS,D,13800138000# Delete 1st number: SOS,D,1# Delete 2nd number: SOS,D,2# Delete the 2nd and 3rd number: SOS,D,2,3#
Data Upload Time Interval	TIMER,T1,T2#	T1(upload interval when acc on);0 or 5-18000(seconds), 0 means no upload, default is 10; T2(upload interval when acc off);0 or 5-18000(seconds), 0 means no upload, default is 180;
Heartbeat Packet Upload	HBT,time#	HBT,3# NOTE: Range :1-60min, default 3min.
Sensor Sensitivity	LEVEL,A#	LEVEL,2# NOTE: A: Sensitivity Level 1-9 (1-9 is from week to strong vibration)
Arm manually	ARM#	Set the device into arm mode
Disarm manually	DISARM#	Set the device out of arm mode
Vibration Alarm Setting	SENALM,[A][.M]#	A=ON/OFF, default: OFF; M=0/1/2, way of alarming, 0 :GPRS only, 1: SMS+GPRS, 2 : GPRS+SMS+phone call, default:2
	SENALM,OFF#	
Shift Alarm Setting	SHIFT,[A][.B][.M]#	Example: SHIFT,ON,100,1# (Means Setting 100 meters shift alarm range, when the ignition turned off, vehicle's 100 meters' shift will trigger the alarm.) A=ON/OFF; default:ON B=Shift Distance (Range: 100-9999m) M=0/1/2; way of alarm, 0 : GPRS only, 1: SMS+GPRS, 2: GPRS+SMS+CALL, default:1
	SHIFT,OFF#	

Functions	Command Format	Explanation
Auto Arm By ACC	ACCARM,ON,M#	M=5-1800s, default: 60s
	ACCARM,OFF#	Close auto arm by acc function
ACC Status Change Alarm	ACCALM,ON,A,M,N#	A=ON/OFF, Default: ON; M=0/1/2 (way of alarm); 0 : GPRS only, 1: SMS+GPRS, 2: GPRS+SMS+CALL, Default 1; N=0/1/2; 0: ACC ON&OFF Alarm; 1: ACC ON Alarm; 2: ACC OFF Alarm; Default:0
	ACCALM,OFF#	Close engine start/flameout alarm
Power Disconnect Alarm	PWRALM,A,B#	A=ON/OFF, default:ON; B=0/1/2, ways of alarming, 0: GPRS only, 1: SMS+GPRS, 2 : GPRS+SMS+phone call, default: 2;
	PWRALM,OFF#	Close power disconnect alarm

9. Any Questions?

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