



4G MV710G User Manual V1.0

Learn how to set up your new MiCODUS Tracker

1. Main Features



GPS+BDS Remotely Cut Off























Realtime Tracking

Historical Route Playback

Vibration Alarm

Alarm

9-95V Wide Working Voltage

Tracking Platform







Gen-fence

Engine On/ Battery low OFF Alarm voltage alarm





2.Specifications

	Model	MV710G
Device Information	Weight	40g
Device information	Dimensions	79mm(L)*33mm(W)*16mm(H)
	Battery	Built-in 60 mAh 3.7V polymer battery
	Working Voltage	9-95V DC
	Working Current	12V/average 35mA
Working Parameters	Sleep Current	12V/average 10mA
	Working Temperature	-20°C - 75°C
	Working Humidity	10%-85% RH non-condensing
	SIM Card	Micro SIM
Celluar Specifications	Celluar Antenna	Built-in, FPC
Central Specifications	=	GSM/2G: 850/900/1800/1900MHz
	Working Frequency	LTE/4G: LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66
	GNSS	GPS+BDS
	GPS Frequency	L1: 1575.42±1.023MHz
	BDS Frequency	B1:1561.098±2.046MHz
GNSS Specifications	Sensitivity	-162 dBm
OHOO Opecifications	Satelite Channels	32
	Hot/Cold Start	<1s, <32s @ Open Sky
	Positioning Antenna	Built in ceramic dielectric antenna, 18*18*4mm
	Accuracy	<10m (1σ)
	ACC Detection	1
	Cut Off Fuel/Power	Standard
External Interface	SOS (optional)	1
	Open door Alarm (optional)	1
	Microphone	1

3. How to manage the tracker to get online?

Step 1 SIM card requirements



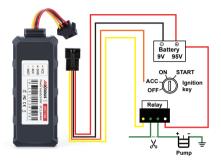
Please get a suitable SIM card from your local place. The SIM card must meet below points:

- ◆ It must be compatible with the 4G LTE or 2G GSM network
- Please enable SMS, call, internet data traffic of the SIM card.
- ♠ Enable the caller ID display feature
- Remove the PIN code
- Use Nano size SIM card for the tracker
- Please inquire the SIM card provider for the exact correct APN information

Step 2 SIM card installation



Step 3 Wiring



NOTE A A After installed SIM card correctly , it is very important to connect the tracker with external power no less than 12V for power supply before operation!

Step 4 Configure APN

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!

Step 5 Indicator status description

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

4. Package Content

GPS Main Unit	x 1
Function Cable	x 1
User Guide	x 1
Genuine Packing Box	x 1

5. Functions Explanation

a. Cut Off Fuel/Resume Fuel

- * Set center number by this sms command: CENTER,A,center number#
- * Send this sms command from the center number: RELAY,A#

A=0/1/2; (0: Resume Fuel; 1: Cut Off Fuel Immediately; 2: Cut Off Fuel Safely)

For example:



b. Vibration Alert:

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

- . Configure SOS numbers for the tracker by this sms command: SOS.A.1st number.2nd number.3rd number#
- 3 SOS numbers sunnorts at the most * Enable the device to enter into arm mode by this sms command: ARM#
- * Conifgure the alarm ways by this sms command: 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:1

- * Keep the device under stationary status more than 5min to let it enter into sleep arm mode:
- * Vibrate the device then the tracker will send the vibration alarm messages

c. External Battery Low Voltage Alarm

* Command format: I VAI M A R M# A=ON/OFF default: ON:

B=9-95V (voltage alarm threshold), default: 11.1v M=0/1/2, way of alarming, 0: Server only, 1: SMS+Server. 2: SMS+Server+Call. default:1:

For example:

SET SOS NUMBER OK

SET ARM MODE OK

SET VIBRATE ALARM OK

MV710G

SENALM ON 1#



For example: LVA LM ON 11.5.1#

This means once the external battery voltage is less than 11.5v the device will send alarm message via server and sms

d. Engine Start and Flameout Alarm

* Command format: ACCALM.A.B.M# A=ON/OFF, Default: ON:

B: 0/1/2: 0: ACC ON Alarm: 1: ACC OFF Alarm: 2: ACC ON&OFF Alarm: Default:2

M: 0/1/2 (way of alarm): 0 : Server only.

1: SMS+Server 2: SMS+Server+Call Default:1:

For example: ACCALM ON 2.1#

This means once the device detects engine start and engine flameout it will send alarm message via server and sms

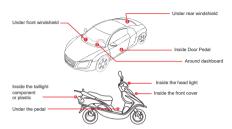
For example:



For example:



6. Installation Recomendation



- 1) The decice should face up to the sky.
- 2) Metal therma barrier of heating layer of the windshield affects the signal.

7. Troubleshooting

Туре	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.
	In area with poor GNSS signal (tall building around or basement), drifting may happen.
Location drift	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 service.

8. Full SMS Commands List

Setting Commands

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)
	If set with Domain Name: SERVER,1,Domain,Port#	SERVER,1,d.micodus.net,7700#
Server Setting	If set with IP: SERVER,0, IP,Port#	SERVER,0,47.254.77.28,7700#
Check IMEI	IMEI#	DEVICE IMEI No.: 0123456789
Change IMEI	IMEICHG,354188046912460#	NEW IMEI No.: 354188046912460
Restore factory settings	FACTORY#	RESTORE FACTORY SETTINGS OK
Restart device	RESTART#	RESTARTING1 MINUTE WILL BE OK
	TRAFFIC,ON#	OPEN TRAFFIC OK
Internet Traffic Switch	TRAFFIC,OFF#	CLOSE TRAFFIC OK
Time Zone Setting	GMT,A,B,C#	Example-GMT, E,8# (Means East +8 zone, no half time zone) GMT,W,9,30# (Means West -9.5 zone, has half time zone) A: E / W. E: East time zone, W: West time zone B: 0 ~ 12; whole time zone C: 0/15/3045, half time zone
Set the angle upload	ANGLEREP,X,A,B#	Example: ANGLEREP,ON,30,3# (Means the tracker will send a data supplement when will send as that supplement when angle change exceeds 30 degrees and lasts for 3 seconds). X-ONOFF, default: ON; A-5-180 degrees, diversion angle degree, default: 30 degrees, deversion angle degree, default: 30 degrees, descends, detecting time, default: 3 seconds, detecting time, default: 3
	ANGLEREP,OFF#	CANCEL UPLOAD ANGLE OK
Mileage Statistics	MILEAGE,A,B#	Example: MILEAGE,ON,5000# (Means enable the mileage statistics feature, the mileage initial value is 5000km) A=ON/OFF, On/Off mileage calculation, default: Off B=0 ~999999, Mileage initial value, unit: km; default: O, mileage return to zero
	MIELEAGE#	Query current mileage

Add SOS Administrator Number	SOS,A,1st number,2nd number, 3rd number#	Example: Set 3 numbers at a time: SOS.A. 13800138000,13800138001,13800138002# Set the first numberseparately: SOS.A. 13800138000# Set the second number separately: SOS.A.,13800138001# Means to set 3rd number separately: SOS.A.,1380013800139002#
Delete SOS Administrator Number	SOS,D,1st number,2nd number, 3rd number# or SOS,D,1,2,3#	Example: Directly delete the number: SOS.D. 13800138000# Delete 1st number: SOS.D. 1# Delete 2nd number: SOS.D. 2# Delete 2nd number: SOS.D. 2# Delete 2nd and 3rd number: SOS.D.2.3#
Add Center Number	CENTER,A,center number#	Example: CENTERA, 00861380013800018 (Means the tracker will just can be controlled by this number 008613800138000, 0086 is countly code) NOTE: Please set up the center number with the country code as prefix! 2. After set up center number, the tracker will just can be controlled by center number, it will not reply commands from other numbers.
Delete Center Number	CENTER,D#	DEL CENTER OK
Data Upload Time Interval	TIMER,T1,T2#	Example: TIMER. 5,180# (Means the tracker will upload data every 5 when ACC is on and 180s when ACC is off) Times of the control of the control of the when ACC on the control of the control of the control of the when ACC OFF. default is 10, when ACC OFF. default is 10, Tar unges 05–18000 (seconds), upload interval when ACC OFF. default is 10,
Heartbeat Packet Upload	HBT,time#	Example: HBT,3# (Means the tracker will send heartheat data package to server every 3 min for connection maintenance) NOTE: Range :1-60min, default 3min.
Sensor Sensitivity	LEVEL,A#	Example: LEVEL,2# (Means set up the shake sensor level to 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

Cut Off / Resume Fuel	RELAY,A#	A=1/2: 1- Enable relay immediately 1- Enable relay immediately 1- Enable relay andley For Example A is set b 1, the relay command will be executed mediately. A is set b 2, the relay command will be executed assignment of the security of the security A is set b 2, the relay command will be executed assign. The vehicle is safe only when the speed is lower than 20km/h if GPB is fixed, or the vehicle is stationary if GPB is not fixed.
	RELAY,0#	RESUME FUEL OK

Inquiry Commands

inquiry communas		
Functions	Command Format	Explanation
Version Inquiry	VERSION#	Device Reply Example: ID:9301074948 IME:334188046912460 ICCID:898602A51314F1298017 VERSIONAW930G_V2.0.2 BUILD:OCT 19 2016 16:31:00
Parameter Inquiry	PARAM#	Device Reply Example: 10-3901074488 IME:1861157040411488 APH-CANNET IP-47 254 77.28 77700 TMER: 0.1 300 ANGLERFT: 30 CONTEX: 13428768257 SOS:13207052281,13488888888,13599999999
Latitude&Longitude Inquiry	WHERE#	LAT:N23.02930,LON:E114.32180,COURSE:0.00,S PEED:0.00KM/H,DATETIME:2015-05-23 14:39:11
Map URL Inquiry	URL#	http://map.google.com/?q=22.557868,113.935090 <0.0km/h 0.0> <2014-12-12 07:32:13> IMEI:354188047752402
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.

Status Inquiry	STATUS#	BATTERY: XX96 (Built in Battery Power Percent) INTERNET: CLOSED (No Network) FAILED (Connecting Network or Failure) SUCCESS (Connected to Network) FAILED (Connecting Network or Failure) SUCCESS (Connected to Network) FAILED (Note of Note
Alarms Parameters	ALARM#	ID: 1917/2012644 (ID number of device) STATE: ARM/DEARM/Defores abust of device) STATE: ARM/DEARM/Defores abust of device) SPEED: ONIOFF(alarm status); 30km/h(alarm valus); 30km
	Alarm Co	ommands
Functions	Command Format	Explanation

Functions Command Format Example: SPEED,ON,100.1# (When the speed of the tracker exoceds 100kmh t will send alarm message via SMS and server) SPEED A,B,M# Overspeed Alarm Setting Overspeed Alarm Setting Example: SPEED,ON,100.1# (When the speed of the tracker exoceds 100kmh), speed limit, default: 100kmh); SMS-Server, 2: SMS-Server-Call default: 1.

SPEED OFF#

CANCEL OVERSPEED ALARM OK

Vibration Alarm Setting	SENALM,A,M#	Example: SENALM.ON,2# (Means enable the vibration alarm, and the alarm message will be sent via SMS, server and call once it is triggered). A=ONIOFF, default: OFF; M=0/1/2, way of alarming, 0 : Serveronly, 1 : SMS+Server, 2 : SMS+Server+Call, default:2
	SENALM,OFF#	CANEL VIBRATE ALARM OK
Shift Alarm Setting	SHIFT,A,B,M#	Example: SHIFT.CN.300,1 M; (Means Setting 300 meters shift lamm range, when the ignition turned fit varioties' 300 meters shift will trigger the alarm, he alarm message will be sent via SMS and server.) A=CNLOFF; default:CN B=Shift Distance (Range: 100-9999m) M=0/12; way of alarm, 0: Server only, 1: SMS+Server, 2: Server+SMS+CALL, default:1
	SHIFT,OFF#	CANCEL SHIFT ALARM OK
Auto Arm By ACC	ACCARM,ON,M#	Example: ACCARM,ON,60# (Means when the engine turned to off status, the tracker will enter into arm status automatically after 60s) Arm Time: M=5-1800s, default: 60s
	ACCARM,OFF#	Close auto arm function
ACC Status Change Alarm	ACCALM,A,B,M#	Example: ACCALMON2.26 (Means enable this alarm type, tracker will send alarm message via SMS, server and call when engine start and flameout). A-CNOFF, Edeatt ON. B. 01/12.0: ACC ON Alarm; 1: ACC OFF Alarm; 2: ACC ONAGFF Alarm. Default. 2. M. 01/12 (way of alarm): 0: Server only, 1: SMS+Server, 2: SMS+Server, 2: MS+Server,
	ACCALM,OFF#	Cancel ACC alarm function
Power Disconnect Alarm	PWRALM,A,M#	Example: PWRALM,ON,1# (Means when the external power disconnect the tracker will send alarm message via SMS and server) A=ON/OFF, default ON; M=0f1/2, ways of alarming, 0: Serveronly, 1: SMS+Server, 2: SMS+Server+Call, default.2;
	PWRALM,OFF#	Close power disconnect alarm
Low Voltage Alarm Setting	LVALM,A,B,M#	Example: LVALM,ON,11.2V,1# (Means once the external power voltage is less than 11.5 w the tracker will send alarm message out vis SMS and server) A=ON/OFF, default: ON; B=9-95 V, Low voltage threshold, can be a decimal, such as 12.5 V
		M=0/1/2, way of alarming, 0: GPRS only, 1: SMS+GPRS, 2: SMS+GPRS+Call,default:1

Example: SENALM ON 2# (Means enable the vibration plarm

9. Any Questions?

E-mail: support@micodus.com Skype: MiCODUS

10. Download the APP

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