



4G MV810G User Manual V2.0

Learn how to set up your new MiCODUS Tracker

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1. Main Features







4G LTE+ GPS+BDS Remotely Cut Off 2G GSM













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Vibration Alarm

9-95V Wide Working Voltage

Open Door Alarm





Tow Alarm

Power failure alarm

Geo-fence

Ignition On/ Off Alarm

Battery low voltage alarm

Overspeed Alarm

SOS

Voice Monitor

2.Specifications

	Model	MV810G
Device Information	Weight	40g
Device information	Dimensions	79mm(L)*33mm(W)*16mm(H)
	Battery	Built-in 280 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
Celluar Specifications	Working Frequency	GSM/2G: 850/900/1800/1900MHz
		LTE/4G: LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66
	GNSS	GPS+BDS+GLONASS
	GPS Frequency	L1: 1575.42±1.023MHz
	BDS Frequency	B1:1561.098±2.046MHz
GNSS Specifications	Sensitivity	-162 dBm
onoo opecificationa	Satellite Channels	32
	Hot/Cold Start	<1s, <32s @ Open Sky
	Positioning Antenna	Built in ceramic dielectric antenna, 18*18*4mm
	Accuracy	<10m (1o)
	ACC Detection	1
	Cut Off Fuel/Power	Standard
External Interface	SOS	1
	Open door Alarm	1
	Microphone	1

3. How to manage the tracker to get online?



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

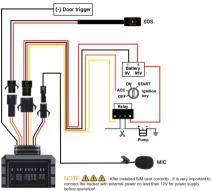
Remove the PIN code

Use Micro size SIM card for the tracker

Please inquire the SIM card provider for the exact correct APN information







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
Microphone (Optional)	x 1
SOS Button (Optional)	x 1
Relay(Optional)	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.password.A.center number#
- * Send this sms command from the center number: RELAY A#

A=0/1/2: (0: Resume Euel: 1: Cut Off Euel 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 supports 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: LVALM,A,B,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: 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: 0/172; 0: ACC ON Alarm; 1: ACC OFF Alarm; 2: ACC ON&OFF Alarm; Default:2 M: 0/172 (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:



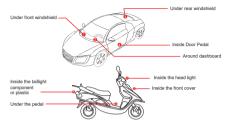
	MV810G
	LVALM,ON,11.5,18
SETLO	W VOLTAGE ALARM OK



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	Uso
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.
	Make sure command format is correct.
No command reply	Vehicle may be in network blind area.
	Make sure SIM card is well inserted and has SMS service.

Setting Commands

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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#
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: 0/15/30/45, 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 the angle change exceeds 30 degrees and lasts for 3 seconds) X=ONOFF, default: ON; A=5 - 100 degrees, devision angle degree, default: 30 degrees; B=2 - 5 seconds, detecting time, default: 3 seconds, detecting time, default: 3
	ANGLEREP,OFF#	CANCEL UPLOAD ANGLE OK

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Mileage Statistics	MILEAGE,A,B#	Example: MILEAGE,ON,5000# (Means enable the mileage statistics feature, the mileage initial value is 5000km) A=ONUOFF; OnUOff mileage calculation, default: Off B=O = 999999, Mileage initial value, unit: km ; default: 0, 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: Set 3, 13800138000,13800138001,13800138002# Set the first numberseparately: Set the second number separately: Set 56, 4, 13800138001# Means to set 3rd number separately: SoGA, 13800138002#
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 1:number: Delete 2:nd number: SOS.D,2# Delete the 2:nd and 3:rd number: SOS.D,2.3#
Data Upload Time Interval	TIMER,T1,T2#	Example: TIMER.5,180# (Means the tracker will upload data every 5s when ACC is on and 180s when ACC is off) T1 ranges 05–18000 cr 0(seconds), upload interval when ACC ON, 0 means no upload, default is 10; T2 ranges 05–18000 (seconds), upload interval when ACC OFF, default is 10;
Heartbeat Packet Upload	HBT,time#	Example: HBT,3# (Means the tracker will send heartbeat 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

Add Center Number	CENTER,password,A, center number#	Example: CENTER,888888,A,+8613800138000# Note: Please set up the center number with the country code as prefix!
Delete Center Number	CENTER,password,D#	Example: CENTER,888888,D#
Set the instruction	PWD,password,ON#	Enable instruction password successfully!
password	PWD,password,OFF#	Cancel instruction password successfully!
Change the instruction password	PWDCHG,[A].[B]#	A=old password, six digitals, digital range: 0-9, default: 888888; B=new password, six digitals, digital range: 0-9
Reset password	RSTPWD,A#	A=ID Number, ID number of the device;
Data Upload Time Zone Setting	DATAGMT, Time zone orientation, Whole Time Zone [,Half Time Zone]#	DATAGMTE.8# (if no half time zone) DATAGMT.W.9.30# (if has half time zone) NOTE: Parameter : E / W. 0 ~ 12, 0/15/30/45
Cut Off / Resume Fuel	RELAY A#	A=12; 1: Enable relay immediately 2: Enable relay safely 1: RELAY,12 A is set to 1; the relay command will be executed immediately: 2: RELAY,28 A is set to 2; the relay command will be executed safely. The vehicle is safe only when the speed is lower than 20km H GPS is inced; or the vehicle is stationary if GPS is not fixed.
	RELAY,0#	RESUME FUEL OK

Inquiry Commands

Functions	Command Format	Explanation
Version Inquiry	VERSION#	Device Reply Example: ID:9301074948 IME:35418804912460 ICCI0:898062A51314F1298017 VERSIGN:MV9306_V2.0.2 BUILD:OCT 19 2016 16:31:00
Parameter Inquiry	PARAMI	Device Reply Example : ID 3901074948 IME:8811574041486 APN:CMNET IP47284728:700 TMER: 0,180 P47254728:700 TMER: 0,180 P4725470 P4725470 P4725470 CONTER: 1342708257 SOS:13267052301,13488888888,135690999090 GMTE8:00
Latitude&Longitude Inquiry	WHERE#	LAT:N23.02930.LON:E114.32180,COURSE:0.00,S PEED:0.00KMH.DATETIME:2015-05-2314:39:11
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: XX% (Built-in Battery Power Percent) INTERNET: CLOSED (No Network) FAILED (Connecting Network or Failure) SUCCESS (Connected to Network) NOV (Signal Strength), 18(5), Not NetD (Signal Strength), 18(5), Not NetD (NetD), 18(5), Not NetD (NetD), 18(5), Not NetD), 18(5), Not NetD (NetD), 18(5), Not NetD),
Alarms Parameters	ALARM#	D: 1972012644 (D) number of divida) SPEED: ONOFF(alam status); 306mh(alam vulae):alam way vulae):alam way vulae):alam way vulae):alam way vulae):alam way vulae):alam way vulae):alam way vulae):alam way vulae):alam way off, alam way vulae):alam vulae):alam way vulae):alam way vulae):alam way vulae):alam way vulae):alam way vulae):alam way vulae):alam vulae):alam way vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vulae):alam vu
Alarm Commands		

Functions	Command Format	Explanation
Overspeed Alarm Setting SPEED.OFF#	SPEED,A,B,M#	Example: SPEED ON, 100, 1# (When the speed of the tracker exceeds 100km/h twill send alarm message via SMS and anxene)
	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=ONOFF, default: OFF; M=O1/2, 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: SHIFTCN.30.01 # (Means Setting 300 meters shift alarm range, when the ignition turned off, weinke's 300 meters' ahit will trigger the alarm, the alarm message will be sent via SMS and server) A=ONOFF; default:ON =Schift Distance (Range: 100-6990m) M=0112; 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: ACCA M.ON2.28 (Means enable his alarm type, Ender will send alarm message vis SMS, server and call when engine start and flameout) A-eNONFF Educatic ON: B: 01/12: 0: ACC ON Alarm; 1: ACC OFF Alarm; 2: ACC ONAOFF Alarm; 2: ACC ON Alarm; 1: ACC OFF Alarm; 2: ACC ONAOFF Alarm; 2: ACC, ON Alarm; 1: SMS+Server, 2: SMS+Server+Call, Default; 2: SMS+Server+Call, Default; 2:
	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=0/1/2, ways of alarming, O: Serveronly, 1: SMS+Server, 2 : SMS+Server+Call, default2;
	PWRALM, OFF#	Close power disconnect alarm
Low Voltage Alarm Setting	LVALM,A,B,M#	Example: IVALM CON, 11.2 // 14 (Means once the external power voltage is less than 11.5 or to tracker will send alarm message out via SMS and server) A=ONOFF, dedukt: ON; B=9.49 V, Low voltage threshold, can be a decimal, such as 12.5 V M=0/12, way of alarming, 0. GPRS only, 1: SMS+GPRS, 21 SMS+GPRS-21.6 defunt: 1
	LVALM,OFF#	CANCEL LOW VOLTAGE ALARM OK

Open Door Alarm Setting	DOORALM,A,M#	Example: DOGRALM.ON,1# (Means once the door open the alarm increasing will be increased on the server) Medition of the server of the server of the server Medition, way of alarming, 0: CIPRS only, 1: SMS+GPRS, 2: SMS+GPRS+Call.default 1;
	DOORALM,OFF#	
SOS Alarm	SOSALM,A,B#	A=ON/OFF, default ON; B=0/1/23, ways of alarming, 0: GPRS only, 1: SMS+GPRS, 2: GPRS+SMS+phone call, 3: GPRS+ call, default2;
	SOSALM,OFF#	Close SOS alarm function
Voice Monitor/Track Modes Switch	MONITOR#	NOTE: Before monitoring the voice around the device, the user must change the device to this monitor mode firstly.
	TRACK#	NOTE: After used the voice monitor mode, user can switch the device back to track mode by this command.

9. Any Questions?

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

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