



# MV790G User Manual V2.0

Learn how to set up your new MiCODUS Tracker

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### 1. Main Features

















GPS+LBS +GLONASS

/Resume Fuel

Remotely Cut Off Historical Route Playback

Realtime Tracking

9-90V Wide Working Voltage

Vibration Alarm

Overspeed Alarm



Tow Alarm

Power Disconnect Alarm





Engine On/ OFF Alarm

Voice Monitor

4G LTE+ 2G GSM

### 2.Specifications

	Model	MV790G	
	Weight	52g	
Device Information	Dimensions	90mm * 40mm * 14mm	
	Backup Battery Working Time	1-2 hours	
	Working Voltage	DC 9-90V	
	Working Current	<30 mA	
	Sleep Current	<15 uA	
Working Parameters	Battery Capacity	3.7V 110mAh Lion Polymer battery	
Working Farameters	Working Temperature	-20°C - 70°C	
	Working Humidity	10%-85%RH non-condensing	
	Working Frequency	2G GSM/GPRS: 850/900/1800/1900MHz 4G LTE CAT1: B1/B2/B3/B4/B5/B7/B8/B12/ B13/B18/B1/B20/B25/B26/B28/B66/B34/ B38/B39/B40/B41	
Cellular Specifications	SIM Card	Nano SIM Card	
	Cellular Antenna	Built-in	
	Positioning Type	GPS+GLONASS+LBS	
	GPS Antenna	Built-in	
	Cold Start	≤32 Seconds	
GNSS Specifications	Hot Start	≤1 Second	
	Tracking sensitivity	-162 dBm	
	GPS Channels	64	
	Position Accuracy	5-10m	
External Interface	SOS,Microphone		

### 3. How to manage the tracker to get online?

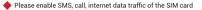
### Step 1 SIM card requirements



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



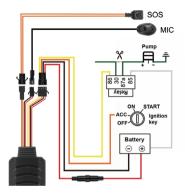
Enable the caller ID display feature



Use Nano size SIM card for the tracker

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







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,apn name	apn ok	apn,cnmet	If the APN information doesn't have APN user and APN password then please use this command
apn,apn name, apnuser,apnpassword	apn ok	apn,orange,orange, orange	If the APN information has APN user and APN password then please use this command

Note: Please get the exact correct APN name from local SIM card provider. 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" get online!

### Step 4 Indicator status description

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

## 4. Package Content

GPS Main Unit	x 1
Function Cable	x 1
Microphone Cable(Optional)	x 1
SOS Button Cable(Optional)	x 1
Relay	x 1
User Guide	x 1
Genuine Packing Box	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:

Step 1:Set admin number by this sms command: admin123456,number with country code

Step 2:Enable the device to enter into arm mode by this sms command: 111

Step 3:Conifgure the alarm ways by this sms command: vib,2,4

Step 4:Keep the device under stationary status more than 5min to let it enter into sleep arm mode;

For example:



Step 5:Vibrate the device then the tracker will send the vibration alarm messages

NOTE A ::vou also can configure more two SOS numbers for the tracker, the alarm messages also will be sent to them!

#### b. Cut Off Fuel/Resume Fuel

Step 1:Set admin number by this sms command: admin123456,number with country code

Step 2:Choose the cut off fuel mode you want: Safely cut off fuel mode: *cutoil123456,0* Immediately cut off fuel mode: *cutoil123456,1* 

For exam	ipie:
admir	123456,0086134******
admin ok	cuto/123456,1
cut oil ok	555
cut of ok	000

Step 3:Send this sms command from the admin number to cut off fuel: 555

NOTE A A :: About the cut off fuel function, firstly please make sure the fuel circuit is connecting to main power. About the cut off fuel function, firstly please make sure the fuel circuit is connecting to main power. Secondly, it has 3 different performance, please read it carefully:

For safely cut off fuel mode, it has 3 different performance, please read it carefully:

\* If the network signal and satellite signal both are available, when the equipment speed exceeds 20km/h, the fuel circuit will not be cut off immediately, it will cut off intermittently till the speed is below 20km/h, then just can be completely cut off.

\* In the tracker has network signal and but no satellite signal, the fuel circuit will be cut off intermittently, after 2, 3 minutes it will be cut off completely;

\* If the tracker stopped more than 5 minutes, the fuel circuit will be cut off immediately, and then connected, but if you vibrate the tracker or vibrate the tracker the fuel circuit will be cut off immediately;

For immediately cut off fuel mode, it will cut off fuel completely under any conditions only if the device has signal.

#### c. Engine On/Off Alarm

Step 1:Set admin number by this sms command:

#### admin123456, number with country code

Step 2:Configure the alarm ways via this sms command:

#### autorep123456,AB

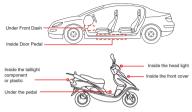
- A=0 (Engine ON: No Alarm);
- A=1 (Engine ON: SMS only);
- A=2 (Engine ON:Platform only);
- A=3 (Engine ON: SMS+Platform)
- B=0 (Engine OFF: No Alarm);
- B=1 (Engine OFF: SMS only);
- B=2 (Engine OFF: Platform only);
- B=3 (Engine OFF: SMS+Platform)

For example:



NOTE A A :you also can configure more two SOS numbers for the tracker, the alarm messages also will be sent to them!

## 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.

Туре	Use
Unable to connect to tracking platform	Check the APN and settings. Check whrther 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 netword 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.

## 7. Troubleshooting

# 8. Full SMS Commands List

Functions	Command Format	Explanation	
Query Commands			
	param,1	firmware version, ID, IP, port, domain, APN	
Parameter Query	param,2	admin number, SOS number,move distance, overspeed, auto arm time, auto disarm time, alarm interval	
Status	status	BAT:10 GPRS: GSM: GPS:A/V ACC:on/off oil:on/off power:on/off	
IMEI Checking	imei123456		
Check Command Password	getpsd		
Google Maps Link	G123456# or where	V.A: Indicates the device bias QPS signal: VV: Indicates the device device Theorem 2005 Signal: 2019-11-28 10:17.01: Date and Time; S. S. Olobani: Speed of the tracker Back 5. Battery level of the lacker of the tracker, it has 6 signals: "Or means 10:05, "5" 65%, theorem 10%, "I means 10%, CAC: off. The status of the care regime. 7201000000: ID number of the device; S205: GSM signal in 26. GOI: 90% signal in 60 p.46000, 11:112, c. 631422, p.10. this 3 parameters means the LBS code	
	Setting Commands		
Set Admin Number	admin 123456, number	Example: admin123456,008613566669999 Please add your country code as prefix of the admin number	
Set SOS Numbers	SOS,SOS1,SOS2	Example: SOS,008613566668888,008613566669999 Please add your country code as prefix of the admin number	
Back to Factory Setting	begin123456	After sent this sms command, all your configuration will be cleared and the device will get back to factory default settings	
Command Password Change	setpwd123456,new password	The password just can be 6 digitals	
Restart	rst	After sent this sms command, the configurations will be saved and the device will restart	
Data Traffic Switch	gprs123456,A	A=1 ON ; A=0 OFF; Default: 1	

Functions	Command Format	Explanation
APN	apn,apn content,apnuser, apnpasswd	Example: apn,orange,orange,orange Please get the exact correct APN name from the SIM card provider of the trackert!!!For example: apn,orange,orange,orange
	apn,apn content	Example: apn,internet If the SIM card operator doesn't have APN user and password, then you can ignore it!!! For example: apn,crimet
IP/Domain&Port	adminip123456, ip/domain name:port	Example: adminip 123456.47.254.77.28.7700 or adminip 123456.d.micodus.net.7700 Micodus tracking platform: Domain name: d.micodus.net, IP: 47.254.77.28, Port: 7700
Data Upload Frequency	upload123456,A	Example 1. spicard 22456.10 Moneys the doriso will updatid date werey 11th update moving status and hasheed data every 3min under static status) 2. updati22456.100 Moneys the driver will updatid date every 1800s under both moving status and static status) American and the static status and static status and the static status of the static status and static status moving, after the car stop more than 5min, it will just updatid hasheed statis every mir. / A is more than 6005, for sample, Ar1800s, then the device will updatid sha according to 1800s under both moving and aladamicy status.
Time Zone	timezone123456,A	If west time zone, you need input sign "-", for example: timezone123456,-4; if east time zone, then needn't input sign "+", for example: timezone123456 8
Arm	111	
Disarm	000	
Voice Monitor	monitor123456,a	Example:monitor123456,1 A=1 Open A=0 Closed Default: Open
Cut Off Fuel Mode	cutoil123456,A	Example: type: want to cat off fuel immediately, please send below two commands: Firstly send: catol 123456,1 Secondly send: 555 Hypu: want to cat off fuel safely, please send below two commands: Firstly send: catol 1123456,0 Secondly send: 555 Ard-1: 0: Cat off fuel safely; 1: Cat off fuel immediately
Cut Off Fuel	555	cut oil ok
Resume Fuel	666	resume oil ok
Auto Arm By ACC	acdt,time	Example: accit.30 (Means the tracker will enter into arm status automatically after engine off 30s) Time scope: 5-1200 seconds

Functions	Command Format	Explanation
	sleep123456,time	If device keep stationary more than 5 minutes the device will enter into sleep mode automatically, sms commands and call can wake up it
Sleep Mode	sleep123456,shock	If device keep stationary more than 5 minutes the device will enter into sleep mode automatically, vibration, sms commands and call can wake up it
	sleep123456,off	Cancel sleep mode
	Alarr	n Setting Commands
Movement Alarm	move, <distance(m)>, [mode]</distance(m)>	Example: move,300,1 (Means if the tracker was moved 300m it will send alarm message to admin and sos numbers via platform and sms ) Move distance 100-3000m; Mode:1-4:1. Platform+SMS; 2: Platform+Call; 3: Platform+ SMS+Call; 4: Platform orBy Default: 4
Overspeed Alarm	speed, <over speed="" value="">, [mode]</over>	Example: speed 100.1 (Means if the speed of the tracker exceed 100km ht will send alarm message to admin and sos numbers via platform and sms ) Speed value: 20150km/h; Mode: 1-4: 1. Platform+SMS; 2. Platform+Cal; 3. Platform+SMS+Call; 4. Platform only Default: 4
Vibration Alarm	vib, <level>,[mode]</level>	Example: vib.3.3 (Means the sensitivity level of the tracker is 3, once the vibration alarm was triggered the alarm message will be sent to admin and sos numbers via platform, sms and call) Sensitivity Level: 1-9, 11s the most sensitive; Mode: 1-4: 1. Platform+SMS; 2. Platform+Call; 3. Platform+SMS+Call; 4. Platform only Default: 4
Tow Alarm	tow, <distance(m)>, [mode]</distance(m)>	Example: tow 300,1 (Means under ACC off status, if the tracker was moved 300m it will send alarm message to admin and sos numbers via sma) Tow distance 100-3000m; Mode:0-4: 0. Turn Off; 1. SMS; 2. Call; 3. SMS+Call; 4. Platform Default: 4
Engine On/Off Alarm	autorep 123456, AB	Example: autorep123456.33 (Means both ACC on and off alarm already been enabled, the alarm message will be sent to admin and so numbers via platform and ans). Ard (Engine ON: No Alarm), Ard (Engine ON: SMS only); Brd (Engine OF: No Alarm); Brd (Engine OF: SMS only); Brd (Engine OF: Not Alarm); Brd (Engine OF: SMS only); Brd (Engine OF: Not Amm); Brd (Engine OF: SMS only);
Car Battery Low Voltage Alarm	lowalarm, <voltage>, [mode]</voltage>	Example: lowalarm,12,1 (Means if the external voltage is less than 12v, the alarm message will be sent to admin and sos numbers via platform and soms) Voltage scope. 5-100V, Mode:1-4: 1. Platform+SMS; 2. Platform+Call; 3. Platform+SMS+Call; 4. Platform only Default: 4
Power Off Alarm	pwr,A	Example: pwr,1 (Means when power off the alarm message will be sent to admin and sos numbers via platform and sms) A: Alarm ways 0.4: 0. O (ff: 1. Platform+SMS; 2. Platform+Call; 3. Platform+SMS+Call; 4. Platform only Default: 4

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