



ML100G User Manual V2.0

Learn how to set up your new MiCODUS Tracker

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1.Main Features

























Voice Monitor

Overspeed Alarm

2.Specifications

	Model	ML100G
	Weight	75g
	Dimensions	53mm(L)*31mm(W)*20mm(H)
Device	Battery	3.7V 1500mAh Li-Polymer Battery
Information	Working Voltage	DC 3.4V - 4.5V
	Working Current	4V/Average 55mA
	Sleep Current	4V/Average 6mA
	Waterproof Level	IP65
Working Parameters	Battery Life	Real-time Tracking mode: around 2-4 days; Power Saving Mode: around 5-7 days; Hibernate Mode: around 10-15 days
Parameters	Working Temperature	-20°C~ 75°C
	Working Humidity	10%-85%RH
	SIM Card	Nano SIM
	Cellular Antenna	Built-in FPC Antenna
Cellular Specifications	Working Frequency	4G LTE CAT1: B1/B2/B3/B4/B5/B7/B8/B28/B66 2G GSM/GPRS: 850/900/1800/1900MHz
Specifications	GNSS	GPS+BDS
	GPS Frequency	L1: 1575.42±1.023MHz
	BDS Frequency	B1: 1561.098±2.046MHz
	Dimension of Antenna	18mm*18mm*2mm
	Satellite Channels	32
GNSS	Tracking Sensitivity	-162dBm
Specifications	Hot/Cold Start	<2s, <32s @ Open Sky
	GNSS Antenna	Built-in Ceramics GNSS Antenna
	Positioning Type	GNSS+LBS+AGPS
	Positioning Accurancy	GNSS Accuracy: <5M @ Open Sky LBS Accuracy: 100-2000m (Depend on density of base stations)
Main Features	4G+2G, Realtime Tracking, Vibration Alarm, Shift Alarm, Voice Monitor, Type-C Charge etc	

3.Activate Device

First Step: Prepare And Install Sim Card

- * If use your local SIM card, please make sure the SIM card already enabled SMS, internet data traffic, call and caller ID displaying functions;
- * If use our spionlink SIM card, then please recharge it via this website www.spionlink.com to get data plan firstly



LED	Event	State
	Charging	Solid
POWER LED (RED)	Charger inserted and battery has been fully charged	Dark
	Charger has not been inserted	Dark
0511 150 0/51 1000	Searching for network	Flash every 1 second
CELL LED (YELLOW)	Network has been registered	Solid
GPS LED (Blue)	GPS is in fixing	Flash every 1 second
GF3 LED (Bide)	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	

Second Step: 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,apn content, apnuser,apnpasswd#	apn ok	apn,orange,orange, orange#	If there has APN user and APN apnpassword, then please use this command for configuration
apn,apn content#	apn ok	apn,internet#	If there doesn't have APN user and APN password, then please use this command for configuration

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

ML100G Tracker	x 1
USB Charging Cable	x 1
User Guide	x 1
Packing Box	x 1

5.Functions Explanation

1. Voice Monitor

* Set up a center number for the device: CENTER password A CENTER NUMBER#

For example, if you want to set up this number as center number:+8613366668888, the command should be sent like this: CENTER.8888888.A.+8613366668888#

For example:



Note: Please put the country code as prefix with the center number!

* Use the center number to set up a number for the tracker to call back: MONITOR number for monitor#

For example, if your send this command:

MONITOR,+861336666888#,then the tracker will make a call to
this number +8613366668888 and this number can pick up the call
to monitor the voice around it

Set Working Mode

- * Command format: MODE,A,T1,T2#
- * For example: Realtime Tracking Mode: MODE,1,10,3600#

This means the tracker will upload every 10 seconds when it is moving, and every 3600 seconds when it is static.

* For example: Power Saving Mode: MODE.2.0800.1#

For example:



This means the tracker will enter into power saving mode at 08:00am and upload every 1 hour. If now is 09:00am, then the tracker will enter power saving mode at 08:00am of tomorrow.

* For example: Hibernation Mode: MODE,3,0800,1#

This means the tracker will enter into power saving mode at 08:00am and upload every 1 hour.

Note: The difference between the mode 2 and mode 3 is that, under mode 2, the device can be waked up by sms, call and light sensor, under mode 3 the device will just can be waked up by light sensor.

3 Vibration Alarm

* Set up a center number for the device: CENTER.password.A.CENTER NUMBER#

For example, if you want to set up this number as center number:+8613366668888, the command should be sent like this CENTER 888888 A +8613366668888#

Note: Please put the country code as prefix with the center number!

* Set up SOS contact numbers: SOS.A.SOS1.SOS2.SOS3#

For example.: SOS.A.+8613366667777. +8613366667778.+8613366667779#

Note: You can set up 3 SOS alarm numbers for the device at the same time

* Set up the vibration alarm way: SENALM,ON,2#

For example: MI 100G



6.Installation Recomendation



- Driving seat sundries box
- ② Front bumper
- ③ Driving sundries box
- (4) Under the chassis
- Rear windscreen
- Rear bumper

7.Trouble Shooting

Type	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

8. Full SMS Commands List Query Commands

Query Commanus		
Functions	Command Format	Example
Version Inquiry	VERSION#	Device Reply Example: ID: ID number of the tracker IMEI: IMEI number of the tracker ICCID: The ICCID number of the SIM card in the tracker VERSION:The firmware version of the tracker
Parameter Inquiry	PARAM#	Device Reply Example: ID: ID number of the tracker IME:IME number of the SIM card in the tracker APNAPN nameAPN userAPN password, IP: Domain name and port number or IP address, port pumber MODE:Working mode;interval or starting time, upload interval SPEEDLIMT:The overspeed threshold ANGLERPT: Data uploading angle CEMTER: Center number of the tracker SOS: SOSI,SOSI,SOSI,SOSI
Status Inquiry	STATUS#	BATTERY XXII (Bulli-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) 18 GPS: CLOSED(GPS Module Closed).FIXED.N(Positioned and satellite number).UNFIX.(Nivo Positioned yet) SPEED: SIGNAM/The current speed of the target) SENSOR: ON/OFF (Sensor on or off), LEVEL 3 (Sensitivity Iveel 1-9) STATE: ARM (Am or Disamm)
Alarms Parameters	ALARM#	ID. 19172012644(Device ID number) STATE: ARM(DISARM)(Fortified state of device) SPEED: ON(OFF)306m/(Speed limit); alarm ways SHIFT: ON(OFF)306m/(Speed limit); alarm ways UBRATE: ON(OFF)3(sensitivity) of sensot); alarm ways LOW BATTERY: ON(OFF)3(sensitivity) of sensot); alarm ways TEARDOWN: ON(OFF)3(sensitivity) ways

Latitude& Longitude Inquiry	WHERE#	LAT:N23.02930,LON:E114.32180,SPEED:0.00KM/ H,DATETIME:2023-01-05 14:39:11
Map URL Inquiry	URL#	http://map.google.com/?q=22.557868,113.935090 <0.0km/h 0.0> <2023-01-05 14:39:11> IMEI: 354188047752402
Satting Commands		

Example

Command Format

Functions

Setting Commands		
Functions	Command Format	Example
APN Setting	APN,APN Name, APN User, APN Password#	Example: APN_CMNET# (if no APN User & APN Password) APN_internet_internet; (if with APN User & APN 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#
Restore factory settings	FACTORY#	FACTORY OK
Restart device	RESTART#	RESTART OK
Internet Traffic Switch	TRAFFIC,ON#	OPEN TRAFFIC OK
	TRAFFIC,OFF#	CLOSE TRAFFIC OK
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-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#	CANCEL UPLOAD ANGLE OK

Functions	Command Format	Example
Time Zone Setting	GMT,Time zone orientation,Whole Time Zone [,Half Time Zone]#	Example: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
Mileage Statistics	MILEA G E, 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
	MIELEA GE#	Query current mileage
Add SOS Administrator Number	SOS,A,1st number, 2nd number, 3rd number#	Set 3 numbers at a time: SOSA,13800138001,3800138001,13800138000# Set the first number separately: SOSA,13800138000# Set the second number separately: SOSA,13800138001# Means to set 3rd number separately: SOSA,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#
Sleep Mode Setting	SLEEP#	NOTE: After set this sleep mode, the device will enter into sleep mode automatically when the device keep stationary status more than 5min.
	SLEEP,OFF#	CANEL SLEEP MODE OK
Voice Monitor	MONITOR,N#	Example: MONITOR,+8613366669999# (Means the tracker will make call to +8613366669999, and this number +8613366669999 can pick up the call to monitor the voice) N: Number for Voice Monitoring NOTE: 1. Please send this monitor command via the center number; 2. Any number can be set up to monitor the voice, the tracker will make a call to the number N and it will can pick up the call to monitor voice.

Functions	Command Format	Example
	MODEA,T1,T2#	A=1/2/3, 1: Tracking mode 2: Power saving mode 3: Hibernation mode; Default mode: 1 A=1 (For example: MODE,11,036009 means the tracker will work under mode 1, it will upload every 10s under moving status and \$600s under status status) T1: upload interval of GPS data in moving status, unit: second,10-3600s; default 10s T2: upload interval of GPS data in static status, unit: second,10-6550s; default: 3600s
Working Mode Setting		A=2 (For example: MODE,2,0800,1# means the tracker will work with power saving mode since the next 08:00am, and upload every 1 hour) T1: interval start time, format: HH:MM T2: time interval,range: 1-72 unit hour,default interval: 24hours
		A=3 (For example: MODE,3,0800,1# means the tracker will work with hibernation mode since the next 08:00am, and upload every 1 hour) T1: interval start time, format: HH:MM T2: time interval,range: 1-72 unit hour,default interval: 24hours
		NOTE: The difference between Mode 2 and Mode 3 is that under Mode 2 the device can be wake up by SMS, Call and light sensor, but under Mode 3 the device just can be wake up by light sensor!
Heartbeat Packet Upload	HBT,time#	Example: HBT,3# (Means the tracker will send hearbeat data package to server very 3min to keep the network connected) Time: 1-60min, default 3min
Sensor Sensitivity	SENLEVEL, sensitivity#	Example: SENLEVEL.4# (Means shake sensor level is set to 4) A=1-9 NOTE: 1-9 is from week to strong vibration
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!	
разамоги	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]#		DATAGMT,E.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	
Change IMEI	IMEICHG,354188046912460#	NEW IMEI No. : 354188046912460	
Alarm Setting Commands			

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Functions	Command Format	Example
Vibration Alarm Setting	SENALM,A,M#	Example: SENALM_ON_2# (Means the vibration alarm already been enabled and the alarm message will be sent via Server, SMS and Call) A=ON_OFF, default: OFF: M=O-1/12, way of alarming, 0 :GPRS only,1 : SMS+GPRS, 2 : GPRS+SMS+phone call, default: 1
	SENALM,OFF#	CANEL VIBRATE ALARM OK
Overspeed Alarm Setting	SPEED,A,B,M#	Example: SPEED,ON,120,1# (Means the speed limit is 120km/h and the alarm way is via SMS and Server) A-ON/OFF, open or close over speed alarm, default: OFF B=1~255(km/h), speed limit, default: 100(km/h); Me0/1/2, way of alarm, 0 : GPRS only, 1: SMS+GPRS, 2-GPRS+SMS+CALL; default: 1
	SPEED,OFF#	CANCEL OVERSPEED ALARM OK
Shift Alarm Setting	SHIFT,A,B,M#	Example: SHIFT.ON.100.1ef (Means Setting 100 meters shift alarm range, when the ignition tumer off, vehicle's 100 meters' shift will trigger the alarm and the alarm message will be sent via Server and SMS) A-ON/OFF, default-ON B-Shift Distance (Range: 100-9999m) M-0/1/2; way of alarm, 0: SERVER only, 1: SERVER+SMS, 2: SERVER+SMS+CALL, default-1
	SHIFT,OFF#	CANCEL SHIFT ALARMOK

Low Battery Alarm Setting	BATALM,A,M#	Example: BATAL MON.1 # (Means the low battery alarm already been enabled and the alarm message will be sent via Server and SMS.) A=ON/OFF, default: ON; M=O1/1/2, way of alarming.0: SERVER only.1: SERVER+SMS, 2: SERVER+SMS.4+Call, default: 1; NOTE: Once the battery level is below 20% device will alarm
	BATALM,OFF#	CANCEL LOWBATTERY ALARMOK

9. After-sale Contact Information

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

10. Download the APP

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