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Micodus MV720

Micodus MV720 GPS Tracker User Manual

Model: MV720

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Micodus MV720 GPS Tracker. The MV720 is a compact and efficient vehicle tracking device designed for real-time location monitoring, security, and remote control functionalities. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

2. Product Overview

The Micodus MV720 is a discreet GPS tracker often designed to resemble a standard vehicle relay, making it ideal for covert installation. It integrates advanced GPS and cellular technologies to provide accurate positioning and communication capabilities.

Figure 2.1: The Micodus MV720 GPS Tracker, designed to look like a vehicle relay, shown with a SIM card package.

Figure 2.2: The MV720 tracker positioned beside a smartphone, illustrating its integration with the mobile tracking application.

Figure 2.3: A detailed view of the MV720's internal circuit board, highlighting its compact design and components.

3. Specifications

The following table outlines the technical specifications for the Micodus MV720 GPS Tracker (typical for MV7xx series):

Category	Parameter	Value
Device Information	Model	MV720 (GPS08)
	Weight	40g
	Dimensions	79mm(L) x 33mm(W) x 16mm(H)
	Battery	Built-in 60 mAh 3.7V polymer battery
Working Parameters	Working Voltage	9-95V DC
	Working Current	12V/average 35mA
	Sleep Current	12V/average 10mA
	Working Temperature	-20°C ~ 75°C
Cellular Specifications	SIM Card	Nano SIM
	Cellular Antenna	Built-in, FPC
	Working Frequency	GSM/2G: 850/900/1800/1900MHz
	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
	Sensitivity	-162 dBm

GNSS Specifications Category	Parameter	Value
	Satellite Channels	32
	Hot/Cold Start	<1s, <32s @ Open Sky
	Accuracy	<10m (1σ)
External Interface	ACC Detection	1
	Cut Off Fuel/Power	Standard
	SOS (optional)	1
	Open door Alarm (optional)	1
	Microphone	1

4. Setup and Installation

Proper installation is crucial for the MV720's performance. It is recommended to have the device installed by a qualified professional.

4.1 SIM Card Installation

1. Ensure the device is powered off.
2. Locate the SIM card slot on the device. The MV720 uses a Nano SIM card.
3. Insert the Nano SIM card into the slot with the correct orientation until it clicks into place.
4. Ensure the SIM card has an active data plan and is capable of 2G/4G communication.

4.2 Wiring Diagram

The MV720 is designed to be wired into your vehicle's electrical system. The following diagram illustrates the standard wiring connections:

Figure 4.1: Wiring diagram for the MV720 GPS Tracker, showing connections to battery, ignition, and fuel pump relay.

4.3 Connection Points

- **Red Wire:** Connect to the positive terminal of the vehicle's battery (constant 9-95V DC power).
- **Black Wire:** Connect to the negative terminal of the vehicle's battery or a reliable ground point.
- **Orange Wire (ACC):** Connect to the vehicle's ignition (ACC) wire. This allows the tracker to detect ignition status.
- **Yellow Wire (Relay Control):** Connect to the control wire of the fuel pump relay. This enables remote fuel cut-off functionality.
- **Blue/Green Wires (Relay Output):** These are the output wires from the relay integrated into the tracker, typically used to interrupt the fuel pump circuit.

Warning: Incorrect wiring can damage the device or the vehicle's electrical system. Consult a professional for installation if you are unsure.

5. Operating Instructions

The Micodus MV720 GPS Tracker is primarily operated through a dedicated mobile application or web platform.

5.1 Mobile Application / Web Platform

1. Download the official Micodus tracking application from your smartphone's app store (iOS/Android) or access the web platform via a browser.
2. Register an account and add your device using its unique ID number (usually found on the device or packaging).
3. Once added, you can view the real-time location of your vehicle, historical routes, and device status.

5.2 Key Features

- **Real-time Tracking:** Monitor your vehicle's live location on a map.
- **Historical Route Playback:** Review past travel routes and stops.
- **Geo-fence Alarm:** Set up virtual boundaries (geo-fences) on the map. You will receive an alert if the vehicle enters or exits these predefined areas. This is useful for monitoring specific zones like home, work, or restricted areas.

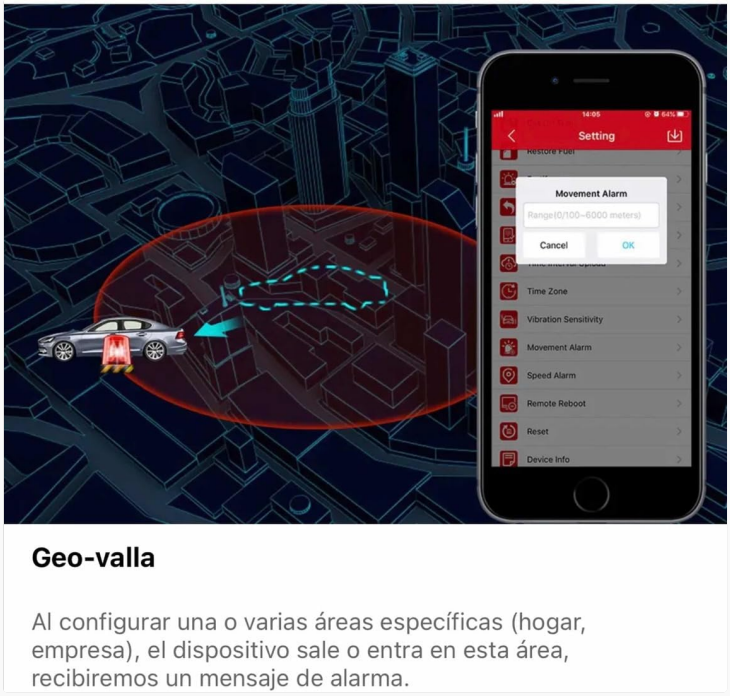

Figure 5.1: The mobile application interface demonstrating the geo-fence and movement alarm settings, allowing users to define and monitor specific areas.

- **Remote Fuel/Power Cut-off:** In case of theft or unauthorized use, you can remotely cut off the vehicle's fuel supply or power via the app, preventing it from being driven further. This feature should be used with caution and only when the vehicle is stationary to avoid accidents.

Figure 5.2: The mobile application displaying the remote fuel cut-off function, a security feature to disable the vehicle's engine remotely.

- **Vibration Alarm:** Receive alerts if the vehicle experiences unusual vibrations, indicating potential tampering or impact.
- **Speed Alarm:** Set a maximum speed limit, and receive notifications if the vehicle exceeds it.
- **ACC Detection:** Monitor when the vehicle's ignition is turned on or off.

6. Maintenance

The Micodus MV720 GPS Tracker is designed for low maintenance. Follow these general guidelines to ensure its longevity:

- **Keep Dry:** Avoid exposing the device to water or excessive moisture.
- **Temperature:** Operate within the specified temperature range (-20°C to 75°C). Extreme temperatures can affect performance and battery life.
- **Cleanliness:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning.
- **Firmware Updates:** Periodically check the official Micodus website or app for any available firmware updates to ensure optimal performance and access to new features.
- **SIM Card:** Ensure the SIM card is always active and has sufficient data balance for continuous operation.

7. Troubleshooting

If you encounter issues with your Micodus MV720, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device not showing online	No power, SIM card issue, poor network signal	Check power connection. Ensure SIM card is correctly inserted and active. Move to an area with better cellular coverage.
Inaccurate GPS location	Poor GPS signal, device obstructed	Ensure the device has a clear view of the sky. Avoid installing in enclosed metal areas.
Cannot send commands (e.g., fuel cut-off)	No network, incorrect wiring, device offline	Verify device is online. Check wiring connections, especially the yellow wire for relay control.
No historical data	Device was offline, data plan expired	Ensure continuous power and active data plan. Check device status regularly.
App not connecting to device	Incorrect device ID, server issues, app version outdated	Double-check device ID. Try restarting the app or your phone. Update the app to the latest version. Contact support if issues persist.

If the problem persists after trying these solutions, please contact Micodus customer support for further assistance.

8. Warranty and Support

Micodus products typically come with a standard manufacturer's warranty. Please refer to your purchase documentation or the official Micodus website for specific warranty terms and conditions.

8.1 Customer Support

For technical support, troubleshooting assistance, or warranty claims, please contact Micodus customer service through their official website or the contact information provided with your product packaging. When contacting support, please have your device's model number (MV720) and unique ID readily available.

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Documents - Micodus – MV720

MiCODUS MV720 Tracker User Manual V2.0
User manual for the MiCODUS MV720 Tracker, providing setup instructions, specifications, troubleshooting, and SMS commands.
lang:en score:63 filesize: 4.79 M page_count: 10 document date: 2022-03-17

[pdf] User Manual Specifications
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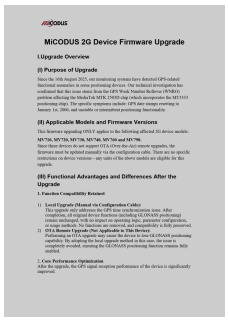

MiCODUS 2G Device Firmware Upgrade

I.Upgrade Overview

(I) Purpose of Upgrade

(II) Applicable Models and Firmware Versions

(III) Functional Advantages and Differences After the Upgrade

1. Function Compatibility Retained

2. Core Performance Optimization

[MiCODUS 2G Device Firmware Upgrade Guide]

This guide provides step-by-step instructions for upgrading the firmware of MiCODUS 2G devices (models MV710, MV720, MV730, I

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[pdf] Quick Start Guide Installation Guide Guide

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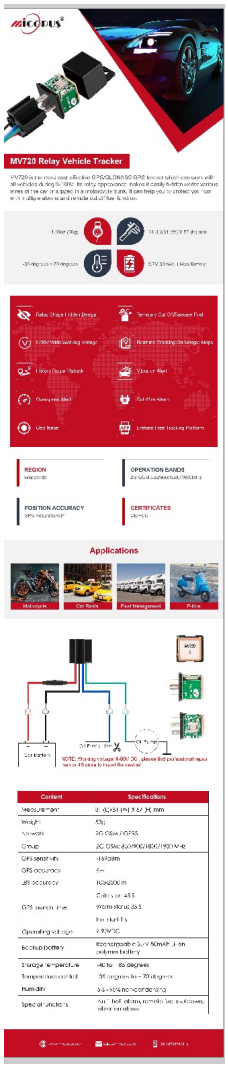

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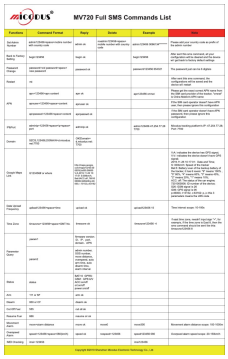

MV720 Full SMS Commands List

Functions	Command Format	Reply	Notes	Example	Notes
Set Admin Number	apn+123456+begin+admin number+end	admin ok	Loading 123456 default mode, number will overlay	apn+123456 13966138****+end	Please call us to send a code at APN of the device number
Back to Factory Setting	begin+123456	begin ok		begin+123456	After send the same command, all your configuration will be deleted and the device will restart to factory default setting
Password Change	password+old password+space+new password	password ok		password+123456 654321	The password is set as 6 to 8 digits
Restart	rst				After send, the unit is removed, the configuration will not be lost and the device will restart
APN	apn+123456+apn content	apn ok		apn+123456 cmnet	Please get the exact correct APN name from your local telecom operator, or it will not work
	apn+user+123456+space+content	apnuser ok			If no APN user name, please leave it blank after "user" then please ignore this configuration
	apnpassword+123456+space+content	apnpassword ok			If no APN password, please leave it blank after "password" then please ignore this configuration
FTP/GPRS	upserver+123456+space/ip+space+port	setftpip ok		upserver+123456 47.254.13.96 8000	Please set the matching platform's IP / IP 20.13.96 and Port 8000
Domain	APN+123456+DOMAIN+domain name+0722	APN/domain/port ok			
Coaxial Relay Line	1/1/2/2/all or show		The initial position of the relay is disconnected. 1/1 indicates that the relay is closed once. 2/2 indicates that the relay is closed twice. 2/10 indicates that the relay is closed twice and the interval is 10 seconds. "0" means OFF, "1" means ON, "2" means ON, "3" means ON, "4" means ON, "5" means ON, "6" means ON, "7" means ON, "8" means ON, "9" means ON, "10" means ON. Example: 2/10 means ON, 10 seconds, OFF, ON, 10 seconds, OFF, ON.		
Hide &Install Password	upload+123456+space+time	upload ok		upload,30,60 12	Time Interval: scope: 10-100s
Time Zone	timezone+123456+space+GMT No.	timezone ok		timezone,123456 +3	Fixed this zone, need+ input sign "+" or "-" and time zone, for example, Moscow is GMT+3, enter timezone,123456 +3, and the time will timezone,123456 0
Parameter Query	param1	Storage: number, SOS, etc. Only one can be queried at a time			
	param2	APN number, GPS setting, time zone, timezone, sim card number, alarm mode, upload mode, apn, ftp, domain name			
Others	status	MCC, GPRS, GPS, sim card, alarm mode, power on/off			
sms	+1 or 00	sms ok			
Reset	SMS+1/0	reset ok			
On/Off Fax	SMS	on or off			
Receive Fax	MMS	receive or not			
Movement Alarm	movement+distance	move ok	move	move,500	Movement alarm distance scope: 100-1000m
Designated Alarm	speed+123456+space+5882km/h	speed ok	overspeed 123456	speed,123456 080	Overspeed alarm speed scope: 30-180km/h
Alert Grounding	level 123456		level 123456	level,123456	

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