amber connect
Experience Telematics AI

# Quick Start Guide

## ACC210

## Amber Covert C210

Smart GNSS Tracker

1 Install Your device

2 Download Amber Connect App

3 Activate the device

## 1. Warranty

- The warranty is valid only when the warranty card is properly completed, and upon presentation of the proof of purchase consisting of the original invoice indicating the date of purchase, model and serial No. of the product. We reserve the right to refuse warranty if this information has been removed or changed after the original purchase of the product from the dealer.

- Our obligations are limited to repair of the defect or replacement of the defective part or at its discretion replacement of the product itself.

- Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been attempted by any unauthorized service centre.

- Repair or replacement under the terms of this warranty does not provide right to extension or renewal of the warranty period.

- The warranty is not applicable to cases other than defects in material, design and workmanship.

## 2. Maintenance Record

| Date | Serviced by |
|---|---|
| Product Model | |
| IMEI Number | |
| Fault Description | |
| Comments | |

## 3. Troubleshooting

| Type | Use |
| --- | --- |
| Unable to connect to tracking platform | Check the APN and IP settings. Check whether the data service or SIM card is enabled.<br><br>Check the balance of SIM card. |
| Tracker shows offline | Check whether external power is still connected. Check if the vehicle entered a network blind area.<br><br>Check the balance of SIM card. |
| Unable to locate | Make sure the top side is facing upward without metallic things shielded.<br><br>Make sure it's not in an area with no satellite coverage. |
| Location drift | In areas with poor GNSS signal {la11 building around or basement), drifting may happen. Check whether vibration happens around to trigger the accelerator. |
| No command reply | Make sure the command format is correct. Vehicle may be in a network blind area.<br><br>Make sure the SIM card is well inserted and has SMS service. |

- In areas with poor GNSS signal {la11 building around or basement), drifting may happen. Check whether vibration happens around to trigger the accelerator

### Loss of traction alert

- When the vehicle changes the course angle for more than 3 seconds at an angular velocity greater than 20• Is, the device will send an alert to the platform.

### Vehicle angle abnormality

- When the vehicle rolling angle is greater than 20° and less than 70°, the device will send an alert to the platform.

## 4. Driver behavior monitoring

Device support detects eight types of driver behaviors, which are transmitted by GPRS and can be displayed on the server.

- **Harsh acceleration alert**

The device defines harsh acceleration as occurring when the vehicle's speed increases sharply. An alert

will be sent to the platform. E.g: The vehicle's speed increases from 0KM/H to 50KM/H after 2 seconds of engine start.

- **Harsh brake alert**

The device defines harsh braking as occurring when the vehicle's speed decreases sharply. An alert will be sent to the platform. E.g: The vehicle's speed drops from 50KM/H to 10KM/H after 2 seconds of emergency braking.

- **Sharp turn alert**

The device defines sharp tum as occurring when the vehicle makes a high-speed turn. An alert will be sent to the platform. E.g: The driving speed is greater than 30KM/H, and the angle change is greater than 90°.

- **Harsh lane change alert**

The device defines harsh lane change as occurring when the vehicle suddenly changes lanes at high speed. An alert will be sent to the platform. E.g: The driving speed is greater than 60KM/H, and the angle change is less than 20°.

- **Crash alert**

If collision occurs, the device will send an alert to the platform.

5. ## Over-speed alert (Default OFF)

To cut-off/restore the fuel by SMS command, you have to authorize a center number.

Set the center number: **CENTER,A,mobile number#**

Delete the center number: **CENTER,D#**

## Notice:

Only the preset SOS number can set/delete the center number.

Only one center number can be set.

To cut-off fuel/power connection: RELAY.A#

A=0/1 (O=restore fuel; 1 =cut-off fuel) Default value: 0

E.g.RELAY,1#

Over-speed alert (Default OFF)

SPEED,S,T,SPEED,M#

8=1 means ON; S=O means OFF

T means duration of speeding, ranges 5-600 (second)

SPEED ranges 1-255 (KM/H)

M means alert way

M=1 SMS+GPRS; M=O means GPRS

E.g. SPEED,ON,20,100,1#

When vehicle speed is over 100KM/H for 10 seconds, you will receive an SMS and GPRS alert on the server.

**Note: SPEED.OFF# Disable over-speed alert**

## 6. GPS upload interval setting

**By time interval (Default Valid)**

TIMER,T1, T2#

- Tl means upload interval when ACC ON
- T2 means upload interval when ACC OFF
- Range: 5-18000 or O (second); O means no upload
- Default valid setting: TIMER, 10, 10#
- Query current TIMER setting: **TIMER#**

**By distance interval (Default OFF)**

DISTANCE,D#

- D ranges 50-10000 or 0 (meters)

Note: If the user enables uploading by DISTANCE, the preset TIME uploading turns invalid.

## 7. SOS emergency call (with 6-pin power cable)

In case of emergency, press **SOS** for 3 seconds to activate SOS alert. The device will send an SMS

alert to preset SOS numbers and dial the numbers in a loop for three times until the call is picked up. Ala nm message will also be sent to the tracking platform.

To add SOS number**: SOS,A,number1 ,number2,number3#**

To delete the SOS number: **SOS,D,phone number#**

Query SOS number: **SOS#**

## 8. Remote power/fuel cut-off (with 6-pin power cable)

If the vehicle is stolen, a fuel/power command can be sent by platform, APP or SMS.

**Notice:**

- Make sure ACC is correctly connected.
- When ACC is OFF, command will be executed immediately.
- When ACC is ON but GPS is not fixed, command will defer.
- When ACC is ON and GPS is fixed, command will be executed when vehicle speed is less than 20kmlh.

## 9. Product overview

## 10. INS (Inertial Navigation System)

INS can be used as a fallback in weak or unavailable GPS signal areas, e.g. underpass, tunnel, downtown.

## 11. Driver behavior analysis

- Harsh acceleration alert
- Harsh braking alert
- Harsh cornering alert
- Sudden lane change alert
- Collision alert
- Skidding alert
- Rollover alert
- Roll and pitch alert

## 12. Position tracking

- GPS & LBS positioning
- Real-time location query

## Easy self-installation

## 13. Specification

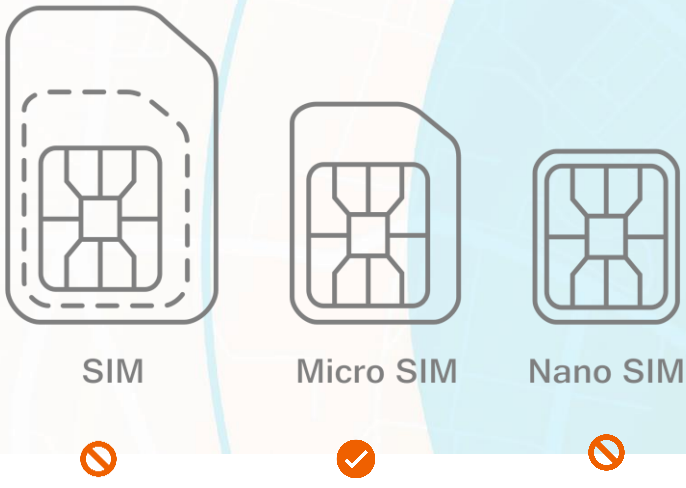
| | |
|---|---|
| GSM Band | 850/900/1800/1900 MHz |
| GNSS Type | GPS+INS (Inertial navigation system) |
| Antenna | Built-in GPS ceramic antenna; GSM quad-band antenna |
| LED indicator | GPS(blue), GSM(green), Power(red) |

| | |
|---|---|
| Battery | 450mAh/3. 7V Li-Polymer battery |
| Working voltage/current | 9-36VDC/38mA(12VDC) |
| Standby time | 28 hours |
| Working time | 1.5 hours |
| Operating temperature | -20°C to 70°C |
| Weight | 63g |
| Dimension | 80.0 x 67.0 x 16.0mm |

## 14. Standard Parts list

| Item | Quantity |
|---|---|
| JM-VG01U | 1 |
| 6-pin power cable | 1 |
| Hook & loop fastener | 1 |
| Relay | 1 |
| Panic button | 1 |

## 15. Product setup



## Insert SIM and Power on

- Choose the Micro SIM card with SMS and GPRS access.
- Remove the front cover and toggle the switch to OFF.
- Insert the SIM card into the card slot with its gold-plated contacts towards the Printed Circuit Board.
- Toggle the battery switch to ON and return the cover.

# 16. LED indications

**Power Status (Red)**

| Behavior | Meaning |
|---|---|
| Quick blinking | Low internal battery |
| Slow blinking | Normal mode |
| Solid on | The device is charging |
| Off | Power off or battery error |

**GNSS Status (Blue)**

| Behavior | Meaning |
|---|---|

| | |
|---|---|
| Blinking | GNSS synchronizing |
| Solid on | Positioned |
| Off | GNSS module is in sleep mode or not working |

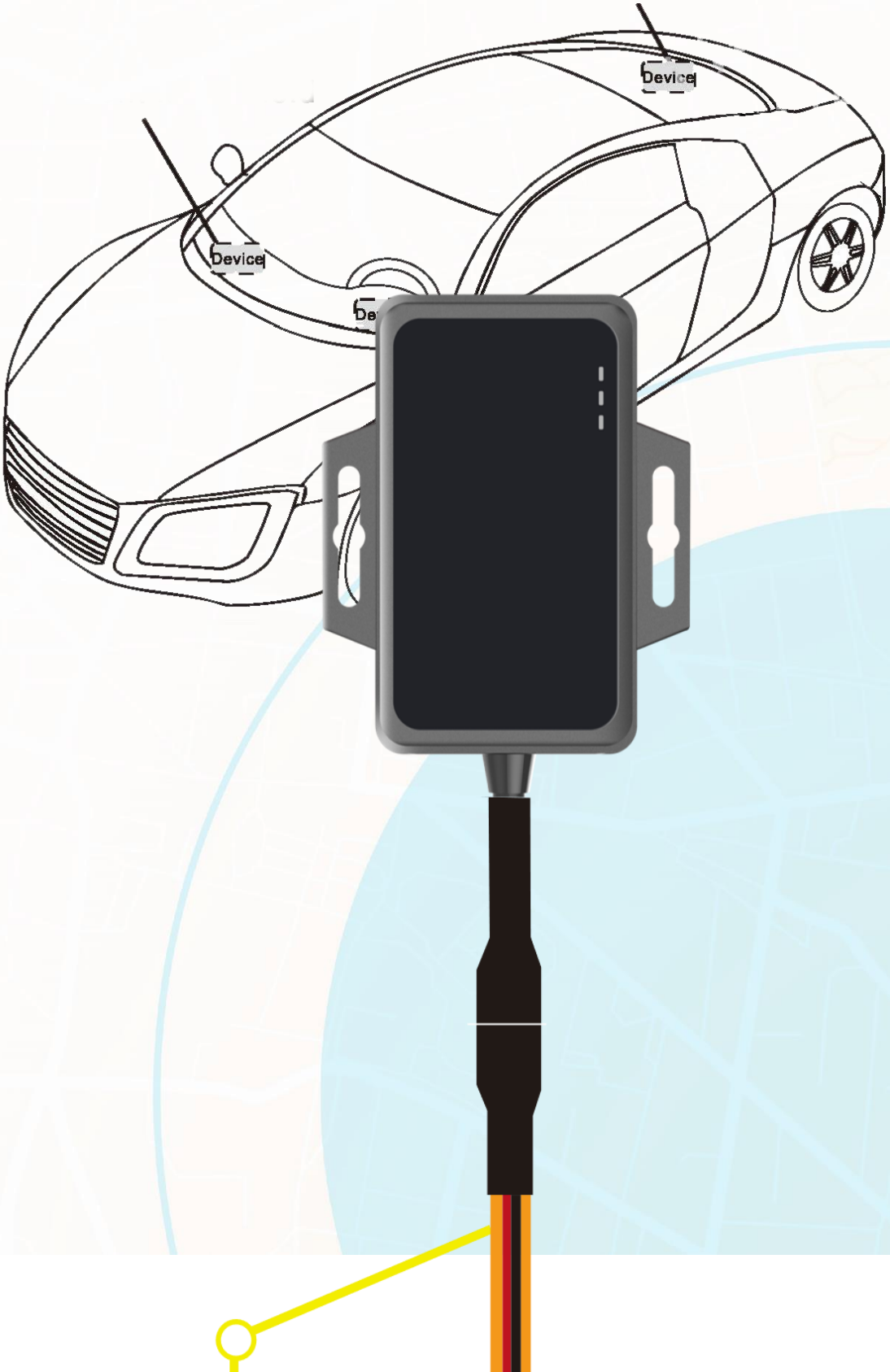
**Wireless Network Status (Green)**

| Behavior | Meaning |
|---|---|
| Quick blinking | Module initializing |
| Slow blinking | Registered but no inbound acknowledgement |
| Solid on | Network available |
| Off | No signal received or no SIM card detected |

## 17. Wiring & Installation

| Color | Meaning |
|---|---|
| Red | Power+ |
| Black | Power- |
| Orange | ACC by default, positive triggered |
| Yellow | Immobilization by default, open drain output |
| Orange | SOS+ by default |
| Black | SOS- |

Under rear


Device
Device

## 18. Power connection

The standard power supply ranges from 9V to 36VDC.

During installation, the negative side should connect to the ground. Do not connect with other ground wires simultaneously.

## Ignition wire

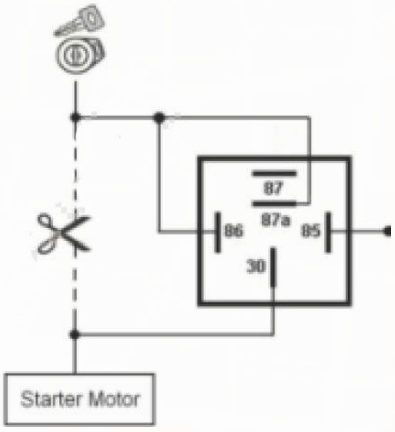
ACC line (orange) connects to vehicle's ACC, detecting ignition. Be sure to check if it's a real ignition wire if the power does not disappear after starting the engine.

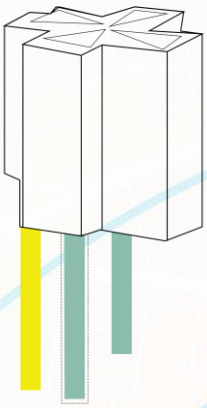
## Relay wiring

Relay's white line(85) connects to the positive side of battery(12V) while the yellow line(86) connects to the device's relay control

(yellow line on power cord).

Find the fuel pump of the vehicle and cut off its positive power line. The positive side of the fuel pump connects to the green line(87a) while the side closing to starter motor connects to green line (30), as in the chart below. Switch of the two green lines have the same effect.



12V relay is standard. The device is suitable for vehicles with 12V supply. If the vehicle power supply is 24V, use 24V relay.

# 19. SMS configuration

## Tracked by mobile phone

Send the command URL# by SMS to the device's SIM card number. The device will reply with a map link. Clink the link to have the location displayed on Google Maps on your mobile phone.

If device in somewhere not positioned, device will reply "Positioning, please wait for a moment" or "Positioning fail".

## Monitored by tracking platform

APN & Server setting

To ensure normal network operation, please confirm your APN and server setting before you login. In most countries, APN could be automatically adapted to local mobile operators. If not, please send

SMS to set the APN.

If username and password are required for APN, please add it Into the command.

APN ,apnname#

E.g.APN,internel#

APN ,apnname,user,pwd#

E.g.APN,internel,CLENTE,AMENA#

Confirm the server address and setting with distributors. If server is incorrect, please send SMS to change.

SERVER,mode,domain name/IP,port,0#

E.g: SERVER.1, www.ydpat.com, 8011,0#

SERVER,O, 211.154.135.113.8011,0#

mode□1 means set with domain name

mode=0 means set with IP address

Please login to the designated service platform and enjoy your monitoring experience.

Need help? Contact 24/7 live support!

In App Chat | support@amberconnect.com | Chat via website www.amberconnect.com

Works with Android phones and tablets, iPhone, iPad.
Compatible with Chrome, Mac and PC web browsers.

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