STANDARD WIRED INSTALLATION GUIDE

> **Attention:** It is recommended that this installation should ONLY be carried out by qualified Automotive Electrical Technicians

PRE-INSTALLATION NOTES

<u>Training:</u> Have you completed the Euclidic On-Line training modules? Installation by an unauthorised person can affect warranty conditions. Please refer to page 4 for contact details.

<u>Euclidic Installation App:</u> Please ensure you are familiar with the installation application, as this is the primary method to confirm the device is connected to the server and reporting location data correctly.

GET IT ON Google Play — https://play.google.com/store/apps/details?id=com.plantcom.dia

Download on the App Store — Australia
https://apps.apple.com/app/plantcom-device-installer/id1382151069

Download on the App Store — New Zealand
https://apps.apple.com/app/nz/plantcom-device-installer/id1382151069

<u>Pre-Inspection:</u> Use the Installation app to note any external and internal defects.

<u>Installation:</u> Follow normal auto-electrical safety practices to ensure all hardware is fitted safely and securely.

<u>WARNING!</u> Do not attempt to install, re-configure, or remove any product from a vehicle while the vehicle ignition is on. All installations, configurations, or removals must only be done in securely parked, stationary vehicles. Attempting to service devices while the vehicle is in motion could result in malfunctions or incidents, leading to death or serious personal injury.

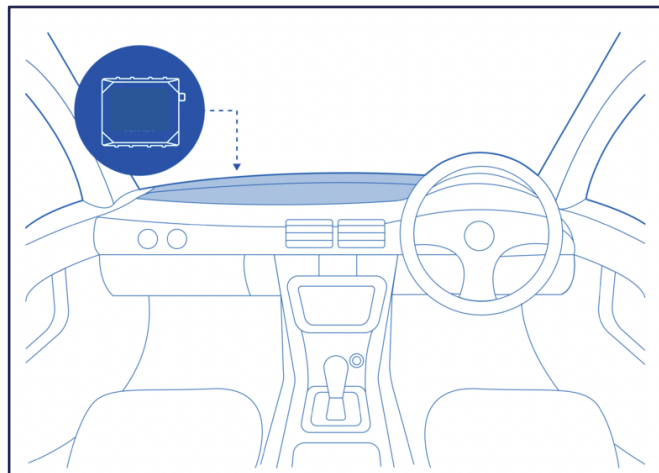| **PAY ATTENTION** ⚠️	Connecting the power supply must be carried out in a very low impedance point of on-board vehicle network. These points in the car are the battery terminals.
	We recommend connecting the power of FMC130 (GND and POWER wires) directly to the battery terminals. Another valid option is to connect the wires to the main POWER cable inside the fuse box (if there is none, then to the power supply where the fuses of the vehicle's computer are). GND wire must be connected in a special point, designed to connect GND vehicle computer.
	Connecting the GND at an arbitrary point to the mass of the car is unacceptable, as static and dynamic potentials on the line GND will be unpredictable, which can lead to unstable FMC130 operation and even failure.

INSTALLATION LOCATION

The FMC130 has an internal GNSS and GSM antenna. The device should be mounted with the sticker/engraving view to the open sky (metal free), as shown in the figure below:

The FMC130 can be mounted under the plastic panel behind the front window, with the sticker/engraving direction to a window (sky). It is recommended to place FMC130 behind the dashboard as close to the window as possible.

A good example of GNSS antenna placement is displayed in a picture below (area coloured blue).
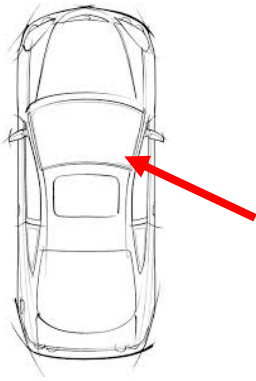
MOUNTING RECOMMENDATIONS

- Connecting wires
  - Wires should be connected while the module is not plugged in.
  - Wires should be fastened to stable wires or other non-moving parts. Any heat emitting and/or moving objects should be kept away from the wires.
  - Connections should be soldered to provide a stable, reliable connection.
  - There should be no exposed wires. If factory isolation was removed while connecting wires, the isolation material should be applied.
  - If the wires are placed in the exterior or in places where they can be damaged or exposed to heat, humidity, dirt, etc., additional isolation should be applied, and the wires should not be loose.
  - Wires cannot be connected to the board computers or control units.

- Connecting power source **(red wire)**
  - Be sure that after the car computer goes to sleep mode, power might be still available on the power wires. Depending on the car, this may happen in 5 to 30 minutes period.
  - When module is connected, measure voltage again to make sure it did not decrease.
  - It is recommended to connect to the main power cable in the fuse box.
  - 3 A, 125 V external fuse shall be used.

- Connecting ignition wire **(yellow wire)**
  - Be sure to check if it is a real ignition wire i.e. power does not disappear after starting the engine.
  - Check if this is not an ACC wire (when key is in the first position, most of the vehicle electronics are available).
  - Check if power is still available when you turn off any of vehicle's devices.
  - Ignition is connected to the ignition relay output. As an alternative, any other relay which has power output when the ignition is on, may be chosen.

- Connecting ground wire **(black wire)**

  - Ground wire is connected to the vehicle frame or metal parts that are fixed to the frame.
  - If the wire is fixed with the bolt, the loop must be connected to the end of the wire.
  - For better contact scrub paint from the spot where loop is going to be connected.

AFFIX THE EUCLIDIC WINDOW STICKER, OR OTHER BRANDED STICKER, AS SUPPLIED.

Now that the unit has been fitted, ensure that the window sticker is applied as per the diagram below. The sticker should be placed on the inside of the windscreen, beside the service sticker.

It is a mandatory requirement that the window sticker is fitted.

This vehicle is fitted with an In Vehicle Monitoring System

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ACTIVATION

Please call Euclidic Support for assistance on:
Australia 1800 382 543
New Zealand 0800 752 682

If you are unable to use the Installer App, please call one of the numbers above and quote the following as a minimum requirement:

♦ Tracking Device Serial Number (868...) (15 Digits)
♦ Satellite Modem Number (3002....) (15 Digits) (Optional, where required)
♦ Vehicle VIN
♦ Vehicle Registration
♦ Vehicle Odometer

NOTE: Do not release the vehicle to the end user without service activation, via the app or by direct contact with Euclidic Systems.

SUPPORT

For any queries regarding this installation, please contact: installations@euclidic.com
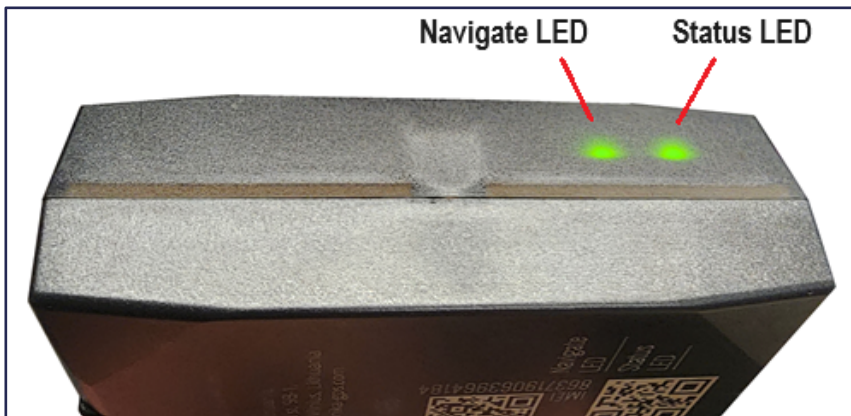Or call us:
Australia 1800 382 543
New Zealand 0800 752 682

FMC130 LED STATUS

This section is an explanation of LED indications on an FMC130 device.

The Navigation and Status LED locations are shown in the image below.

NAVIGATION LED INDICATIONS

Behaviour	Meaning
Permanently Switched On	GNSS signal is not received
Blinking Every Second	Normal mode, GNSS is working
Off	GNSS is turned because Device is Not Working or Device is in Sleep Mode
Blinking Fast Constantly	Device firmware is being flashed

STATUS LED INDICATIONS

Behaviour	Meaning
Blinking Every Second	Normal mode
Blinking Every Two Seconds	Sleep mode
Blinking Fast for a Short Time	Modem Activity
Off	Device is Not Working or Device is in Boot Mode

WIRING SCHEME

The CORE installation only requires the power source (red), ignition (yellow) and ground (black) wires to be connected, as below, following the mounting recommendations detailed in the previous section.