

Satellic



Fixed Installation Guide (permanently connected to the vehicle's power supply)

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(From Belgium and neighboring countries)

or **+32 2 416 0 416**

(From any location)

Calls from mobile networks may be surcharged according to the terms and conditions of your mobile service operator.

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Fixed Installation Guide

Introduction

Since 1 April 2016, every heavy goods vehicle (HGV) of over 3,5 tons have to be equipped with an On Board Unit (OBU) when driving on Belgian roads. By positioning the OBU to the windscreen and switching it on, it detects the vehicle's position based on GPS satellite signals and matches this position with a digital map stored in the OBU. By doing so, each journey on Belgian roads is registered within the OBU.

OBUs can be ordered via the Road User Portal (RUP) on <https://rup.satellic.be>, in which case the OBUs are shipped to the Road User. Alternatively, OBUs can be obtained at [Service Points](#), which you can find across Belgium and close to the border crossings in the neighbouring countries.

The OBU comes with a [OBU Mobile Installation Guide \(power cable plugged into the cigarette lighter\)](#). The Road User can easily install it himself by the means of 4 suction cups to the windscreen. The device is powered on thanks to the cable which was in the original package of the OBU and which is plugged into the cigarette lighter socket.

It is also possible to wire your On Board Unit permanently with a fixed cable to the vehicle's power supply. This is called a fixed installation.

A fixed wired installation to the vehicle has **several benefits**:

- Convenience: OBU automatically turns on/off when ignition is on/off;
- Better safety due to less handling and no wires in the driver cabin;
- Reliability of power connection.

Fixed Installation in practice



How does it work?

Before executing the fixed installation, first make sure to register the OBU and to couple it to a vehicle. You can do this on the Road User Portal (<https://rup.satellic.be>).

Important!

Satellic recommends to **always leave the battery in the OBU and not to remove it unless you carry out ADR/ATEX transports!**

If you carry out **ADR/ATEX transports**, the **battery must be removed** for security reasons. In that case, the **battery, as well as the original cable must be given to the owner of the truck, who must keep them** in order to be able to return them together with the OBU in the future.

Then, there are two ways of installing the fixed wired installation: **do it yourself or have it done at a garage / workplace of your choice**. Satellic recommends having the fixed installation carried out by a certified technician.

a) **Do it yourself or have it done at the garage / workplace of your choice**

Three wires must be connected: Plus, Ground and Ignition. Due to the ignition connection, the OBU will automatically switch on when the engine is started.

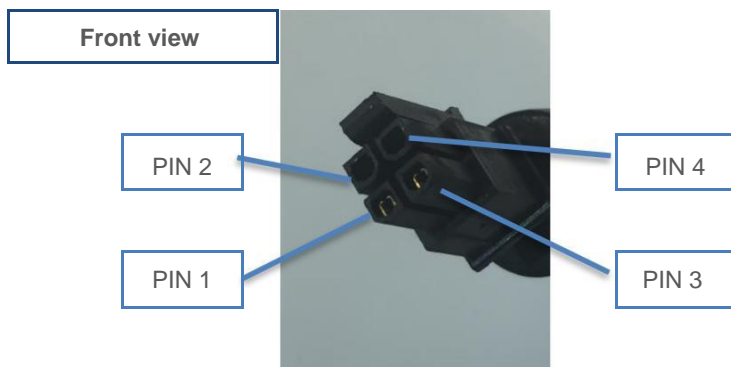
To perform the installation, remove the lid of the battery compartment, remove the battery and disconnect the power cable, connect the fixed wired cable and don't forget to replace the battery inside of the OBU (n/a for ADR/ATEX vehicles) and to close the lid of the battery compartment.

Registered distributor's VDO or Phelect sell an installation kit to help you perform the fixed installation yourself. The fixed installation can also be performed without an installation kit.

b) Connection diagram

To permanently install the OBU to the power supply of the vehicle, you need to replace the original cable which was delivered with the OBU. To do so, you need a cable (with socket Micro-Fit 3.0 & 4 circuit receptacle) and a connector (Molex 43025-0400).

PIN 1	Terminal_30 Plus <i>Red wire</i>
PIN 2	Terminal_15 Ignition <i>Black wire</i>
PIN 3	Terminal_31 Ground <i>Brown wire</i>
PIN 4	Not connected



c) Work with VDO or Phelect

VDO and Phelect have a network of professional installers offering the installation service. For more information about the VDO/Phelect installers: <https://www.vdo.com/>, www.phelect.be.

In an ADR/ATEX (transport of hazardous goods) vehicle, the OBU may also be installed by any service installing tachographs. For these vehicles, please make sure to remove the battery from the OBU and to give it to the truck owner, who is obliged to keep it (together with the original cable). For all other (non-ADR/ATEX) vehicles, always leave the battery in the OBU.



Liabilities and certification

In all cases, Satellic is not liable for any costs, liabilities, intellectual property matters, penalties, loss of toll revenue, loss of time, consequential damages etc. due to any works performed, materials used, or other damages caused by the fixed installation activity.

All liabilities remain with the user within his obligation to support the proper functioning of the toll collection system and OBU.



Return of the OBU after a fixed installation

You are obligated to return the **OBU together with** the external **power cable**, the rechargeable **battery** and the **4 suction cups**.

Except in the case of a fixed installation (to remove the rechargeable battery - if required - and the external power cable), the **seals** of the On Board Unit **may in no event be opened or removed**.

In concrete, this means that the seal of the battery compartment can be broken but the other seal on the OBU can in no event be. See photo hereunder.



This seal may be broken in case of a fixed installation

This seal may never be broken