

This guide describes installation for fixed locations. A separate guide is available for vehicle installation.

Seemoto system consists of a mains current powered gateway (GW) device, battery powered wireless sensors and web based service UI. The sensors take measurements every five minutes and send the data to the GW. The GW transmits the measurements to the Seemoto service. In case the sensors are not inside the GW's coverage area they will store the measurements until they return to coverage area.

Prior to the installation you should write down the MAC code which can be found on the metal sticker on the back of the sensor. The MAC code is used to link the sensor to its place in physical world. In the service the sensors can be named with the familiar name you are using: e.g. Fridge 1, Fridge 2, etc.

Installation:

1. To simplify installation verification it is recommended that the sensors are configured to the service prior to installation. Please refer to Seemoto user guide for how to configure sensors.
2. Place the gateway device so that its "visibility" to the sensors is as good as possible. It is always better to place it higher up so there's a minimum amount of obstacles in between the GW and the sensors. In case sensors are within a container with a heavy metallic door or lid, it is best to place the gateway at an oblique angle. This way the signal will pass more reliably between the door seal. You can attach the GW with a sticker to a cabinet wall or use a separate mounting holder or a stand which is then placed on top of a cabinet. The signal is the strongest on the front of the GW. Therefore avoid putting the gateway on top of a cabinet lying down. In that case the strongest signal will be directed towards the ceiling.
3. Mounting the GW on a wall is also an option. Yet we recommend mounting the GW on a separate base to avoid immediate contact to the wall. A wooden wall is not that bad for the signal but both concrete and metal will weaken the signal significantly.
4. Plug in the GW to mains current and wait approx. 15 minutes for the GW to connect to the Seemoto service.
5. Attach the sensors to their mounting frames close to where they will be positioned. E.g. fridge sensors inside the fridge. This way you will get indication of whether they will be within the coverage area. There is a led light on the top right hand corner of the sensor to indicate whether the connection was established or not. The led will blink within one minute of attaching the sensor to the mounting frame. Green light indicates successful connection and red light tells you the connection with the GW was not established.
6. For the best possible reception the sensors should be placed on upright position. In a fridge the best location would be hanging from an upper grill shelf facing the fridge door. In a fridge with metal drawer shelves it is better to attach the sensor with a sticker on the plastic partition instead of the metal. Note: do NOT affix the sensor directly to the fridge or freezer wall as it is likely to be several degrees warmer than the interior. See further instructions on "Seemoto network first installation" document.
7. Check the progress of the installation on the Seemoto service.



Seemoto gateway's coverage area

Without any obstacles the sensor will connect to the GW even from 400 meters away. While indoors the size of the coverage area is influenced by reflections, heavy walls and other obstacles. Smaller area can be covered with just one GW, but e.g. two floors may require a second GW. In the beginning you may have to adjust the GW position to be able to reach the optimal coverage.

Installation verification

Login to Seemoto at <https://seemoto.mww.fi/> with the username and password provided to you. On the main view you can see whether the GW and the sensors were successfully connected to the service. Digital version of the user guide is provided via the link in the service UI.