



Solar Watts Optimisation

Guide for
Do-It-Yourselfers

Let SWOpti do everything ...

With a "classic" order, most of the manufacturing steps are carried out in France, in Normandy, and the remaining tasks are completed by you when you receive your SWOpti Box. Indeed, some things can only be done in your home, including:

- installation of modules in the electrical outlets concerned
- connection of the micromodules and current clamps in the electrical cabinet
- security configuration of a fixed IP address and redirecting of a port in your internet box.

These things are not difficult to do and you will receive all the wiring diagrams with your SWOpti Box. Regarding the connection of the clamps and the installation of the micromodules (in the electrical cabinet or "in the wall" behind an electric radiator ...), you are invited to call an electrician, home automation engineer or handyman in the family / neighbourhood if you do not feel comfortable with the terms "circuit breaker, live wire, neutral wire ..." and / or if you do not understand the diagrams provided.

... or make your SWOpti yourself!

When ordering a do-it-yourself SWOpti, you'll need to complete the steps at home that would otherwise have been done in Normandy. The table on the next page summarizes the tasks involved. Throughout the installation process, SWOpti can assist you remotely if you encounter any difficulties or don't understand something.

A few comments

Since SWOpti runs 24/7, choose a low-power PC (mini PC, small laptop). The PC doesn't need to be powerful, but it's best to reserve it for SWOpti.

You can purchase Zigbee micromodules and DIN enclosures from the supplier of your choice (we will provide you with a list of sources where we know their products are compatible), or you can purchase them from SWOpti.

The license for Homeseer HS4 Pro can be purchased from Homeseer (we will tell you how to do this) or from SWOpti.

The SWOpti software is obviously purchased from SWOpti.

If you prefer Z-wave, Zigbee modules can be replaced by Z-wave modules, but you will also need a Z-wave Controller in this case. The Z-wave modules you use must allow you to turn the device on/off and they must provide watts and kWh measurements. You can have Zigbee and Z-wave on the same system.

Building your own SWOpti is a rewarding experience. You're making something that will save you money, reduce your return on investment time, and make your solar/wind turbine experience more enjoyable. You'll be proud to have done it yourself (and to tell others you did it!). The system is designed to work on its own, but you'll have a better understanding of how it works after you've built it yourself.

WHO		STEP
SWOpti	You	
	✓	Download, complete and return the "Information Collection" sheet to SWOpti
✓		Calculate the modules needed for your installation and production of a list of everything needed to build the SWOpti Box. Send this list to the customer.
	✓	If you indeed decide to make your SWOpti yourself, you need to procure the items on the list (you may not need every item listed below): <ul style="list-style-type: none"> • Mini PC • Zigbee controller • Zigbee Plug/Socket modules • Zigbee micromodules • DIN Box if there are micromodules to be installed in the electrical cabinet • Zigbee current clamps • Power contactor (according to the installation) • License for Homeseer HS4 Pro • SWOpti software
	✓	Make a transfer to pay for your SWOpti.
	✓	Download your software pack and detailed guide to assist you with installation
	✓	Install some software
	✓	Make some configuration changes in Windows
	✓	Install Homeseer
	✓	Adjust certain settings in Homeseer
	✓	Install the Zigbee controller
	✓	Install the latest version of Zigbee2MQTT
	✓	Install the current clamps in the electrical cabinet, position the clamps on the correct wires and include these modules in Homeseer
	✓	Install and include the plug/socket modules on the appliances concerned
	✓	Install any "in the wall" micromodules and include them in Homeseer
	✓	Install the micromodules in the DIN box in the electrical cabinet and include them in Homeseer
	✓	In Homeseer, configure the devices that were automatically created when you included the modules. They have to be renamed so that SWOpti can find them.
	✓	Configure Homeseer to do backups.
	✓	Install the SWOpti software
	✓	Give the SWOpti Box a fixed IP address in your internet box and redirect a port.
✓		SWOpti will connect to your system remotely to make sure you've done everything correctly