

Electric Vehicle (Smart Charge Points) Regulations 2021

From 30th June 2022, any EV charger installed in a private setting i.e. home or workplace NOT public, in England, Scotland and Wales has to meet the Electric Vehicles (Smart Charge Points) Regulations 2021.

From 30th December 2022, further regulations come into force.

To ensure all our zappis are compliant by the date the regulations come into force we will be taking a phased approach with the implementation of certain features.

For information on how these new regulations may affect you and your myenergi zappi please refer to the full zappi Installation Manual which can be found in the Download Centre on the myenergi website.

Technical Support

If you experience any issues during or post set-up, please contact our technical support team by scanning the QR Code below.



Please contact us directly for the quickest solution.

Below is your unique product identifier

Please register your new myenergi device at
<https://myaccount.myenergi.com/registration>

Installation Date:

Installer Contact Details:



zappi

eco-smart EV charge points



Quick Install Guide

This document covers the following models:

Single phase: ZAPPI-2H07TB-G, ZAPPI-2H07TW-G, ZAPPI-2H07UB-G, ZAPPI-2H07UW-G

Three phase: ZAPPI-2H22TB-G, ZAPPI-2H22TW-G, ZAPPI-2H22UB-G, ZAPPI-2H22UW-G

NOTICE

When installing and wiring the zappi care should be taken to maintain the IP rating of the unit. Ensure that the grommets and bungs provided are fitted, the O-ring behind the cover is seated correctly and that the electricity cable and CT wires are fitted using an appropriate size and type of gland of at least IP65.

Overview

Zappis with model number beginning 2H have a built-in Ethernet port (RJ45 socket) and WiFi to connect to the local network (LAN). They also come with built-in Hub functionality (vHub) which means you don't need a separate hub to link your myenergi devices to the internet or use the myenergi app.

These install instructions should be read in conjunction with the zappi Installation Manual which can be found in the Download Centre of the myenergi website.

Step 1: Remove zappi from its packaging and keep all CT's and fixing kit to one side. CT's and fixing kit are enclosed within the cardboard packaging.



Step 2: Unscrew the cover and unclip flat ribbon cable.

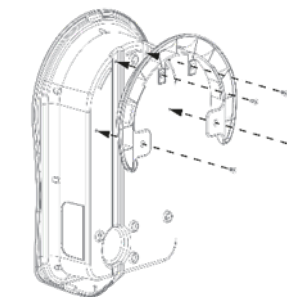
- If fitting an untethered zappi protect the cover whilst it hangs down during installation.



- If tethered, unclip the ribbon cable and set the cover aside.

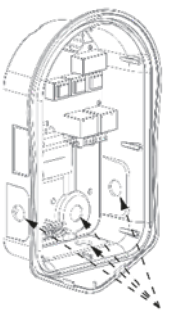
Single Phase - 1 CT, Three Phase - 3 CTs

Step 3: If installing a tethered zappi, you will need to fit the enclosed cable wall guard to the unit using the **4x 4mm x12mm** screws supplied.



Step 4: There are 4 possible cable entry positions, carefully decide which one you are going to use from this image. **You will need an IP65 or above rated cable gland.**

Carefully drill hole into unit to match the size of your cable gland. Attach cable gland ensuring IP rating is maintained.

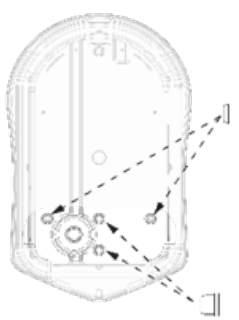


Step 5: Using the enclosed template mark all the mounting holes required.

- Use top and 2 bottom holes left / right for brick (use 7mm dia. Masonry drill and the wall plugs provided).
- Use 3 vertical holes if mounting to a stud wall or joist.



Step 6: To maintain the IP rating of the unit you must ensure that the bungs provided are inserted in any mounting holes that are not used.



Step 7: Using the fixing kit provided secure unit to the wall ensuring the sealing washers are used to maintain its IP integrity.



Note: if using the rear cable entry remember to insert the mains cable before mounting to the wall!

Step 8: Ensure any cable glands used are now tightened.



Step 9: Connect the supply cable in accordance with the local wiring regulations. Strip back **18mm** of insulation from the wires on the mains cable and insert into corresponding terminals.

N.B There is also a dedicated stud terminal bottom right hand corner of the main circuit board where you can connect a TT earth to, using a ring terminal. There's no need to use this stud terminal in TN-S systems.



Three Phase Wiring



Single Phase Wiring

WARNING

↑ ↑

The correct **supply cable entry** is at **the bottom**. The top hole should only be used to release the conductor by inserting an appropriate tool such as a flat bladed screwdriver. If in doubt, there is a yellow label below the terminals to assist you.

Step 10:

- Connect any relevant CTs into the termination blocks provided. **The CT Golden Rules must be followed for the zappi to work correctly.**
- Hold down the spring connectors and push the CT cables into the blocks.
- Make a note of what each CT is measuring and record it below e.g. Grid, Generation, AC Battery.
- Ensure the **RED** goes to (+) and **BLACK** goes to (-)
- You can use the Harvi if hardwired CTs are impractical



CT 1 _____

CT 2 _____

CT 3 _____

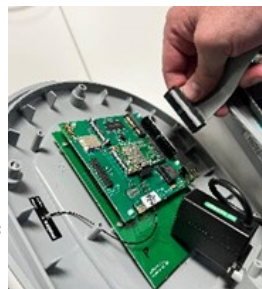
Step 11: Ensure O-ring is present and sits neatly into its channel



Step 12: Installs in England, Scotland and Wales are required to be compliant with the UK Electric Vehicle (Charge points) Regulations. After 30th December 2022 zappi MUST have tamper device fitted.

Refer to Tamper Board Retrofit Guide for further information on the tamper board and instructions on how to fit the it, if required for your installation.

Step 13: Re-fit the cover ensuring the ribbon cable is seated firmly, both in the zappi and onto the back of the cover.



Using a torque driver, tighten all 8 front cover screws to a setting of 1.2Nm.

Now fit the black or white front fascia.

NOTE: If connecting to the internet via hardwired Ethernet ensure to insert your Ethernet cable into the RJ45 Port before refitting cover.

Step 14: Ensure all relevant testing and inspection has been carried out according to local wiring regulations, then power up the zappi.



Step 15: After completing and checking the wiring of the supply and the current transformers (CTs), switch on the zappi via the circuit breaker. zappi will start-up and the main screen will be presented after a few seconds.

Step 16: Upon start up there will be a set-up wizard which will take you through a number of screens. Please ensure you answer the questions accurately for a seamless set-up. The screens will vary depending on install location and install date.

Step 17: harvi – Linked Devices

If using a harvi you need to ensure your zappi is first set to “master”. If this is a standalone zappi then it will already be set to master as part of the power up procedure. Then, follow the individual harvi instruction manual to ensure correct set up and pairing.



1. Put the harvi into pairing mode by pressing the button on the harvi until you see BLUE flashes. The harvi will stay in pairing mode for 2 minutes. (Amount of blue flashes indicates the channel).
2. Now select “channel” on the zappi and make sure this corresponds with the channel harvi is on.
3. Put the zappi into pairing mode by selecting the menu *Other Settings > Advanced > 0 0 0 0 > Linked Devices > Pairing Mode*
4. The zappi will search for the harvi and display it’s serial number on the screen.
5. Press the (+) button to complete the pairing. After a countdown the screen will refresh and show the connected devices with the harvi listed.

Step 18: Configure any hardwired CTs that you have connected at step 10 in the CT Config menu. **Three phase zappis will need one CT per phase.** You will need to use a harvi to connect any other CTs you want to use (Unless you have other zappis or eddis on each phase that you can connect to instead).

CT CONFIG		
CTINT:	Internal	Load
CT1:		Grid
CT2:		None
CT3:		None
Readings...		

(Press menu button > Other Settings > Advanced > 0000 > CT Config)

Refer to step 10 to see what you have connected to CT1, CT2, CT3

Step 19: CTs connected using harvi

If using a harvi, once the harvi has been paired, make sure that you have disabled the corresponding hardwired CTs on the zappi CT Config menu (See step 18).

CT CONFIG			LINKED DEVICES	
CTINT:	Internal	Load	HARVI	
CT1:		Grid	Readings...	
CT2:		None	TYPE:	Single Phase
CT3:		None	CT1:	Grid
Readings...			CT2:	None
			CT3:	None
			Remove Device	

i.e. If the Generation CT is wired into a harvi make sure that **none** of the hardwired CTs are also set to Generation.

Do NOT use harvi to measure Grid CT, if installing in UK.

NOTICE

- One CT must be set to GRID
- There must be only ONE GRID CT
- If the GRID CT is connected to the harvi, make sure that you have turned off the hardwired GRID CT
- **Do NOT use harvi to measure Grid CT for zappi installations in the UK.**

CT Golden Rules

Grid CT

- It is not G100 compliant to use harvi to measure Grid CT with a zappi installation, in the UK.
- Only ONE Grid CT per phase (check for only one ~ symbol in Linked Devices Info).
- Must be located to ‘see’ ALL import and ALL export current (i.e. always upstream of any junction box).
- Arrow pointing in direction of import (e.g. towards consumer unit if on Live cable).

All other CTs

- Arrow should point in direction of normal power flow INTO the consumer unit

3-Phase harvi CTs

- When using harvi in 3-phase mode, the CT inputs correspond to the phase number (e.g. CT1 = Phase 1).

Please read the full zappi manual for further information on setting up the device. This can be found in the Download Centre of the myenergi website.