



harvi

ENERGY HARVESTING  
WIRELESS SENSOR



**INSTALLER**

# Installation Instructions



## Copyright

Copyright of these instructions remains with the manufacturer. Text and images correspond to the technical level at the time of going to press. We reserve the right to make changes. The content of the operating instructions shall not give rise to any claims on the part of the purchaser. We are grateful for any suggestions for improvement and notices of errors in the operating instructions. myenergi libbi, myenergi zappi, myenergi eddi, myenergi harvi and myenergi hub are registered trademarks of myenergi Ltd.

## Liability Limitation

myenergi do not accept any direct or indirect liability for product damage or property loss caused by the following conditions:

- Product modified, design changed or parts replaced
- Changes, repair attempts and erasing of serial numbers or seals
- System design and installation not in compliance with standards and regulations; failure to comply with the local safety regulations
- Transport damage (including scratches to enclosure caused by rubbing of packing during shipping)
- Failure to follow any and/or all user manuals, installation guides and maintenance regulations
- Improper use or misuse of the device
- Force majeure (stormy weather, lightning overvoltage, fire etc.)
- Damage from external factors

## Safety

Read all the safety instructions. Failure to operate the harvi in accordance with these instructions may cause injury, damage to the unit or inefficient operation and invalidate the manufacturer's warranty.

harvi has no user serviceable parts therefore, reparation of the unit should not be attempted. In case of faults, please contact myenergi technical support.

Only the CT(s) supplied by myenergi with libbi, zappi and/or eddi devices shall be used with harvi.

## Manual Keeping

This manual contains important information about operating the harvi wireless sensor. Before operating, please read it very carefully. harvi should be operated in strict accordance with the instructions in this manual. This manual should be kept for the duration of the product's lifecycle.

## Installation Parameters

harvi should not be installed:

- In outdoor locations
- Where relative humidity could be greater than 95%
- At an altitude >2000m
- In an environment with a temperature below -30°C or above 50°C

## Regulatory Information

### General

This product complies with the applicable CE and UKCA marking directives/statutory instruments and harmonised/designated standards:

- Radio Equipment (RED: Directive 2014/53/EU & SI 2017 No. 1206)



- Electromagnetic Compatibility (EMC: Directive 2014/30/ EU & SI 2016 No.1091)
- Low Voltage (LVD: Directive 2014/35/EU & SI 2016 No. 1101)

A copy of the Declaration of Conformity is available in the Download Centre on the myenergi website here;

<https://www.myenergi.com/installers-centre/download-centre/>

### Radio Equipment

This device incorporates an 868/915MHz radio and complies with EN62311 for risks to human exposure.

Radio operates in bands between 868–870MHz/915–916.3MHz – 25mW max.

### Electromagnetic Compatibility (EMC)

This equipment has been designed and tested to fulfil applicable standards for:

- Radio frequency emissions when installed according to the instructions and used in its intended environment.
- Immunity to electrical and electromagnetic phenomena when installed according to the instructions and used in its intended environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under EU rules.

### G100 Guidance

harvi supports the Customer Import and Export Limitation Scheme (CLS), in accordance with G100 issue 2. Where G100 is required as part of an installation, then the installer must adhere to the **G100**

**Commissioning Guidance** which can be located in the Download Centre of the myenergi website:

<https://www.myenergi.com/installers-centre/download-centre/>

Once the CLS is setup correctly, the master device within the myenergi eco-system will monitor the maximum import and export and, if necessary, instruct other devices to increase or decrease import or export if these maximum thresholds are ever exceeded.

### Disposal

In accordance with European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in national law, used electrical devices must be collected separately and recycled in an environmentally responsible manner. Ensure that you return your used device to myenergi or obtain information regarding a local, authorised collection and disposal system. Failure to comply with this EU Directive may result in a negative impact on the environment.



## 1. Product Description

harvi is an energy harvesting wireless sensor which enables myenergi devices to be installed without using a directly connected current transformer (CT) for measuring the grid and/or generation power. Instead, the CT is connected to harvi. No power source is needed for harvi - the energy harvested from the CT is used to transmit the measurement signal to your other myenergi device(s). This means batteries or separate power supplies are eliminated.

## 2. Device Appearance

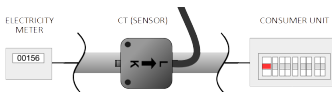


## 3. Installation

Before you start...

- harvi can be wall mounted
- harvi can have up to 3 CTs connected
- Multiple harvi devices can be used on one site
- Batteries or power supply NOT required
- The CT clamp supplied by myenergi must be used

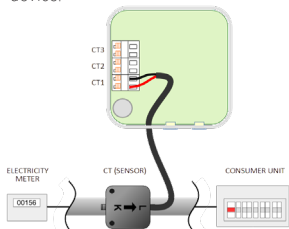
- a. Ensure the CT is securely clipped around the live conductor to be monitored - make sure the arrow sticker on the CT is pointing in the direction of normal current flow (usually towards the consumer unit). For single phase installs only, the CT may be clipped around the neutral conductor and direction reversed.



- b. There is a cable grip installed on the back of the harvi. Simply pass the CT wire through the top hole and then push down to lock into place.



- c. Connect 1, 2 or 3 CTs to the CT input terminal(s), the red wire should be connected to the (+) terminal and the black wire to the (-) terminal of the harvi device.



- d. Refit the back enclosure.
- e. Ensuring there is power being drawn on the chosen live tail, allow up to two minutes for the status LED to start flashing green.



#### 4. Pairing with a myenergi device

Before you start:

- If pairing the harvi to a network of already paired devices, the harvi should only be paired with the 'Master'.
  - a. Press the pair button briefly
  - b. By default the LED should flash blue once, indicating that harvi is on channel 1. However, there may be times when the channel may need to be changed; see "Changing Channel"
  - c. Then the LED will flash red to indicate the harvi is in pairing mode.
  - d. First, check the myenergi device you are pairing harvi to is set as "Master".
  - e. Then, select **Settings > Installer Settings > "enter passcode" > Linked Devices > Pairing Mode**
  - f. The harvi should appear on the screen within a few seconds.
  - g. Check the serial number on the screen matches the number on the front of the harvi device and press (✓) or (+) to add the harvi device.

#### 5. Changing Channel (Optional)

The default channel is number 1 and normally this will not need to be changed however, there may be a situation where there is another device causing interference on a particular channel.

If connecting to older myenergi devices (those with serial no. starting with a '1'), only channels 1 & 4 can be used.

To change channel:

- a. Press and hold down the button, the current channel will then cycle from 1 to 8 indicated by the LED. Once the desired

channel is indicated, immediately release the button.

- b. Ensure all other myenergi paired devices are set to the same channel. **Settings > Installer Settings > "enter passcode" > Linked Devices > Channel**

#### 6. Configuration

After pairing the harvi, the myenergi device will need to be configured to use the harvi. The function of the CTs connected to the harvi are also configured via the myenergi unit.

- a. On the myenergi 'Master' device, go to **Settings > Installer Settings > CT config**
- b. Disable the relevant CT input(s) for that device - this ensures the unit uses the harvi CT instead of a wired CT. i.e. disable "grid" as this is now being measured using CT connected to harvi.
- c. Then, go to **Installer Settings > Linked Devices > Devices**
- d. Highlight the harvi device and press (✓) or (+)
- e. Configure the CTs according to the installation instructions. (Refer to specific manual for the myenergi device you are configuring).
- f. If harvi is to be used on a 3-phase installation then ensure you set harvi to "three phase". This will automatically set all 3 CT inputs to the same input source e.g. grid, generation etc. If used on 3-phase make sure that the Net Phases setting on your myenergi device is turned on.



Please ensure you refer to our golden CT rules, which can be found in all myenergi device manuals, when connecting the CTs.

## 7. Technical Specification

CT Inputs:	Up to 3 inputs for 1 or 3-phase supply
Current Range:	0.1A to 65A <sup>2</sup>
Energy Harvesting Range:	0.25A1 and above
Accuracy:	2.0% Typical
Transmission Rate:	1s @ 8A+, <2s @ 2A+, <30s @ <0.25A+
Wireless Interface:	868 / 915MHz (proprietary protocol)
Mounting Location:	Indoor only (can be housed in a suitably IP rated plastic box, if required)
Dimensions:	98 x 98 x 38mm (including feet)
Operating Temperature:	-30°C to +50°C
Altitude:	<2000m
Relative Humidity:	0 - 95% (Non-condensing)
Pollution Degree:	PD2
Overvoltage Category:	OVIII

<sup>1</sup>Minimum operating current may vary depending upon application of use.

<sup>2</sup>65A maximum rated current in measured circuit. harvi will measure higher currents to ensure any overload is correctly detected and managed in accordance with G100 requirements

## 8. Help Centre

If you experience any issues with your myenergi device, please visit our Help Centre by scanning the QR Code or clicking the link below.



<https://myenergi.com/support-centre/>

## 9. Warranty

Full details of the myenergi product warranty are available on our website or by scanning the QR code below.



<https://www.myenergi.com/terms-and-conditions/myenergi-product-warranty/>







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