

CT Sensor Installation

Current Transformers (CTs) are used to measure current at various places of the installation. For example, the Grid connection point, the solar/wind inverter or a static battery system.

Installation of a CT to monitor the Grid connection point is required. Other CTs are optional and can be purchased separately. The number and location of CTs used within an installation will vary according to devices installed and the user requirements.

CTs can be wired to any **myenergi** device with CT inputs (e.g. **eddi**, **zappi** or **harvi**). This enables very flexible installation as the CT can be wired to the nearest device. **Note:** The harvi device can be used if it is not practical to connect any CT to the **eddi** or **zappi**.

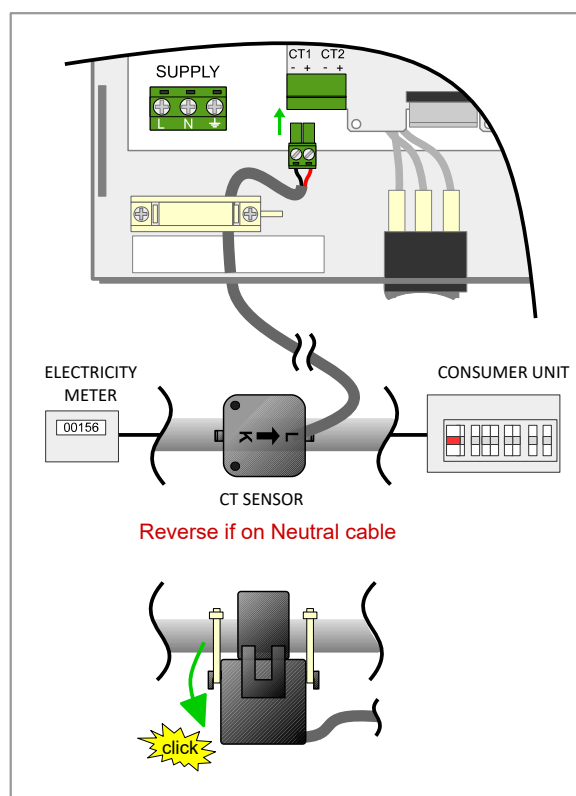
Once installed the CTs need to be configured, see *CT Config* (p21) for details of how to configure the CTs.

Grid CT

The Grid CT sensor (supplied) needs to be clipped around either the Live or Neutral meter tail of the electricity supply meter. If using the Neutral conductor, reverse the direction of the sensor (so the arrow is reversed).

The positioning of the Grid CT sensor is crucial, take note of the following when deciding where best to install the sensor:

- ✓ Can be connected to any **myenergi** device with a CT input e.g. the **eddi** or **zappi** (wired sensor) or **harvi** (wireless sensor).
- ✓ **ALL** of the import and exported power must be 'seen' by the sensor – be sure to install it upstream of ANY junction box or 'Henley Block' (the CT can be fitted inside the consumer unit).
- ✓ There must be only one Grid CT per-phase for the whole installation. (There can be other CTs but only one at the grid connection point, also note CTs for third-party devices do not matter).
- ✓ The CT should be on the Live or Neutral cable.
- ✓ The arrow on the bottom of the CT sensor must be pointing towards the consumer unit (in the direction of grid import) if on the Live cable, or reversed if on the Neutral cable.
- ✓ Ensure the CT is fully closed and clicks shut.
- ✓ Be sure to wire the CT the correct way round; black [–], red [+] otherwise import and export readings will be swapped.



Additional CTs

There is an option to add other CT sensors (available separately) for monitoring the generation or other appliances such as battery systems or general loads. Installing a CT for the generator (PV system) will allow the main screen to show the generated power and the total power consumption of the all the other appliances in the property.

CTs can also be used to limit the power drawn from the supply. See *Load Balancing / Current Limiting* p30.

- ✓ Additional CTs Can be connected to any **myenergi** device with a CT input that is linked to the network (see *Linking Devices* p23).
- ✓ The arrow on the bottom of the sensor must be pointing in the direction of normal power flow (e.g. away from the PV inverter) if on the Live cable or reversed if on the Neutral cable.
- ✓ Ensure the sensor is fully closed and clicks shut.
- ✓ Be sure to wire the CT the correct way round; black [–], red [+].