



EMax Smart Home TX Installation guide



Need help?

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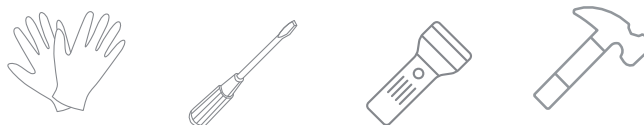
SAFETY INFORMATION

When installing the Efergy EMax Smart Home Energy Monitor you should find that everything is straight-forward. However, there are a number of important health and safety issues which you need to be aware of:

- Voltages dangerous to human health are involved in the installation of Efergy EMax Energy Monitor. Follow all warnings provided in this guideline to ensure your own safety.
- Do not touch sensors clip onto the supply cables inside the main electrical panel. Do not carry out this installation if under the influence of alcohol or drugs.
- Do not use Efergy EMax Smart Home Energy Monitor transmitter in any manner other than specified in this installation guide.
- Do not attempt to open, disassemble, or repair any of the components of the transmitter.
- Do not leave in direct sunlight or near sources of heat.
- Do not install the transmitter in environment with explosive gas or vapors; not in damp or wet environments; nor in direct sunlight; nor where temperatures are consistently out of specification.

- Ensure the transmitter does not have power during any handling, including installation and disassembly.

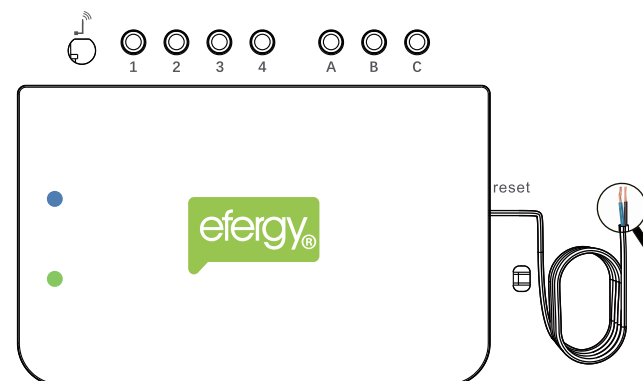
During the installation you may also need:



ELECTRICAL SPECIFICATION

Model: EMSHTX
 Input: 90-250V AC, 1 ϕ , 50/60Hz, 0.014A
 Power: 3W
 Wireless: 433.5MHz
 Operation: -40°C to 50°C, 0-82% RH, Indoor used only
 cable length: 1m

THE HARDWARE



	SMA antenna Port
	60A CT input port
	120/200A CT input port
	Reset button
	Brown : to Live; Blue : to Neutral
	Green: System ; Blue: CT configure

OPERATIONS

RESET

- Hold reset button for 5s until GREEN LED is flashing.

Configure Main's CT

- Hold "reset" button for 10s until BLUE LED light on.

Check Main's CT configuration

- Single press reset button to check BLUE LED status
- Solid in BLUE for 5 seconds-----200A configured
- Flashing in BLUE for 5 seconds----120A configured

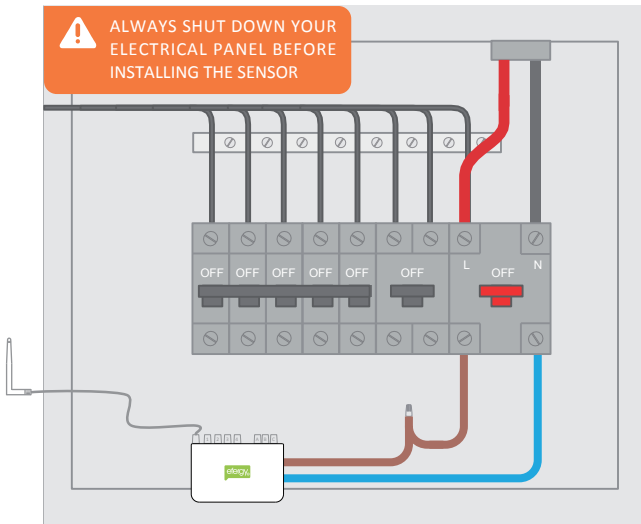
AMBINENT INDICATION

Connected: Solid GREEN
 Connecting: Flashing GREEN
 200A CT configured: Solid BLUE
 120A CT configured: FLASHING BLUE
 RESET for Paring: Flashing in GREEN &BLUE



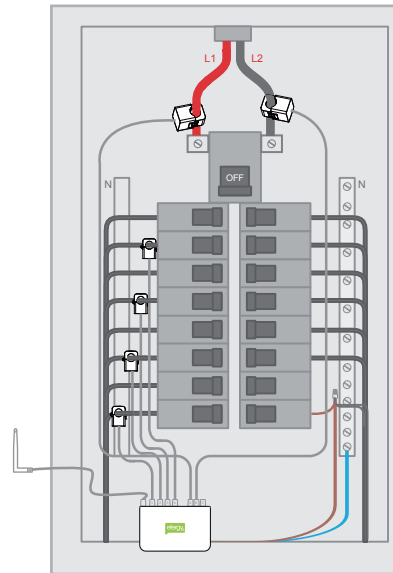
EFERGY RECOMMENDS THAT INSTALLATION IS CARRIED OUT BY A QUALIFIED ELECTRICIAN

Install Antenna and Power Cord



Fuse Panel Fig. 1

120/240V 2 Phase CT Wiring



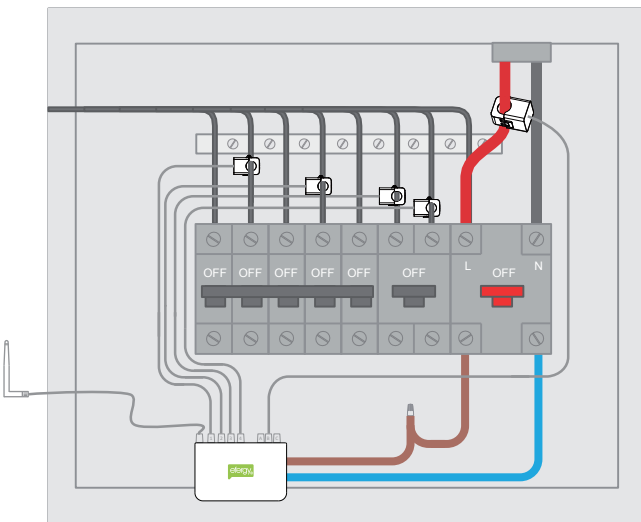
Fuse Panel Fig. 3

Installation Step-by-Step Guideline

1. Completely switch off the power
2. Remove front panel and find suitable spot for transmitter
3. Using the back of screwdriver punch out the knockout cover in the electric panel. Then insert and install the antenna in **Fig 1**
4. Wiring harness **Blue** connects to **Neutral**, **Brown** connects to an **empty 15A** breaker for power supply and voltage sensing. If you don't have empty breaker, use the provided nuts and extension cables to get connected as shown in **Fig 1**
5. Attach CT on live cables. The typical wiring for different system refer to **Fig 2**, **Fig 3** and **Fig 4**.
6. Clamp the 120A CT around the service mains. And plug into "A, B,C" ports of the transmitter.
7. Clamp the 60A CT around the sub-panels of any your interested circuits. And plug into "1,2,3,4" ports of the transmitter.
* **IMPORTANT! The K→L print on the CTs should point toward the breakers.**
8. Visually check your installation and take a picture for future service. If everything is correct, then power on the system.
9. Follow the instruction on EMax Display to finish the pairing process until LED is in solid **GREEN**. Then secure the cover to the box with any screws you removed in step 2. Then close the panel. Once the

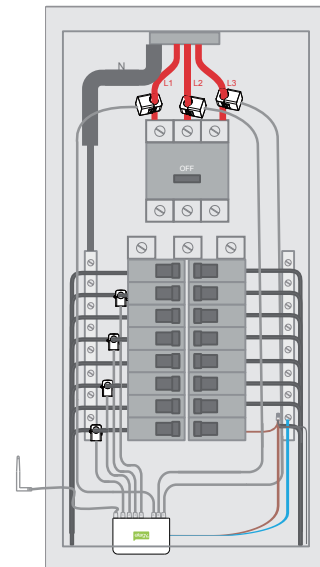
panel cover is replaced, the antenna connector and audio jack ports on the transmitter will not be accessible.

Single Phase CT Wiring



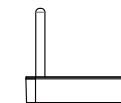
Fuse Panel Fig. 2

3 Phases CT Wiring

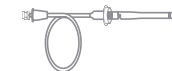


Fuse Panel Fig. 4

IN THE BOX



1 x Transmitter



1 x SMA antenna



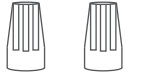
Extension Cable



1 x Instruction manual



Rubber covers



Cable Nuts