Adia

Making heating smart, finally.

Shelly Energy Meter Instructions

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Shelly Energy Meter

Disclaimer

This guide is intended for **qualified electricians only**. While the information provided is based on best efforts, it has not been written by certified electricians. Always follow local electrical codes, manufacturer documentation, and industry best practices. If any instruction here appears incorrect, defer to official sources and your professional judgment.

Overview

Adia requires the ability to remotely monitor power consumption of the customer's heat pump.

Parts List

Supplied by Adia:

- Shelly Pro EM Energy Meter
- 1–2 Shelly Pro EM CT Clamps

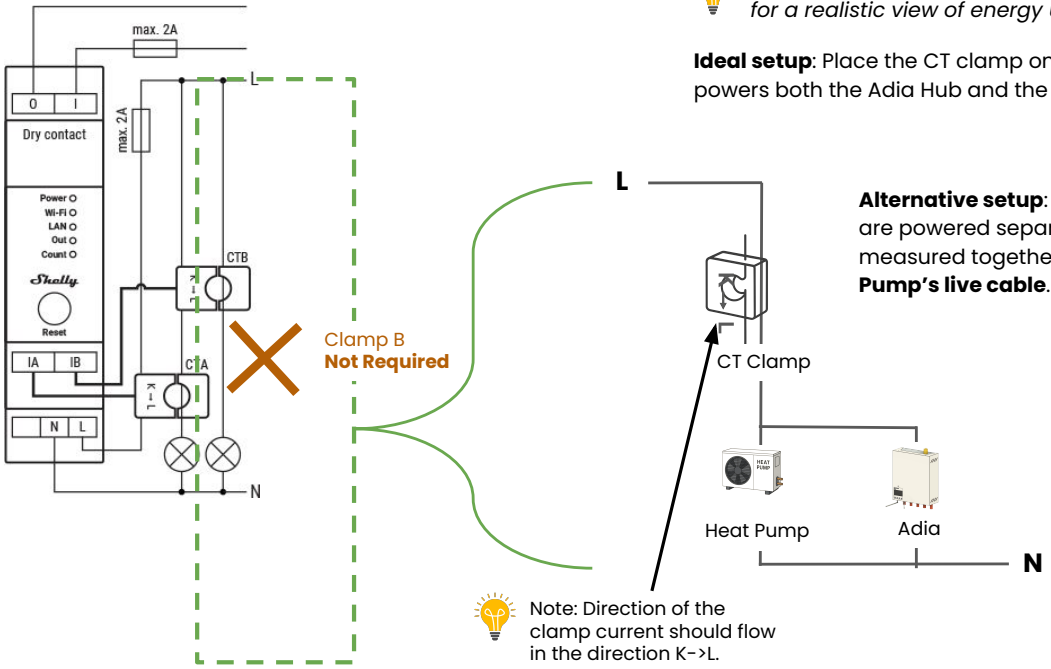
To be supplied by Installer:

- (Optional) DIN rail enclosure for energy meter, if space in the consumer unit is insufficient

Shelly Energy Meter: Installation

Wiring Overview

Please follow the Shelly supplied instructions for wiring in the energy meter. Please note that you **only need to use CT Clamp A**, CT Clamp B is **not** required.



Where to Place the CT Clamp

- Install the CT clamp on the **live (L) supply cable** feeding the system.
- Position it so it measures not only the **heat pump**, but also the **Adia Hub, pumps, fans, and controls**.
- This ensures the reading reflects the **total system consumption**, not just the heat pump.

Best practice: measure the complete system load for a realistic view of energy usage.

Ideal setup: Place the CT clamp on the single live cable that powers both the Adia Hub and the Heat Pump (as shown).

Alternative setup: If the Hub and Heat Pump are powered separately and cannot be measured together, clamp only the **Heat Pump's live cable**.

Shelly Energy Meter: Commissioning and Verification

Commissioning

Once all wiring is complete and the Shelly Pro EM is powered, confirm the device powers on by checking the front panel LEDs.

If the Wi-Fi LED is not green:

1. Press and hold the reset button on the Shelly Pro EM for 5 seconds.
2. Connect a phone or computer to the Wi-Fi network with an SSID containing the name ‘Shelly’.
3. Open a browser and go to: http://192.168.33.1
4. Click the Wi-Fi settings icon and enter the customer’s Wi-Fi credentials.
5. If configured correctly, the device should reboot and display a green LED.

Alternative option:

The Shelly Mobile Application can be used to connect the device to a shared account for remote electricity monitoring.

Verification

After connection, the device should be selected from the Adia App.

Note: May take up to 15 minutes to be scanned and to show as available