If you have Home Assistant, this device will be automatically detected as an ESPHome device.

This page will display the data being monitored by the device.

where XXXXXX is the individual identifier for the device (MAC addresss). This should be displayed with the original packaging, but is also displayed in the logs when connected via USB.

http://esphome-pulse-XXXXX.local

Data from the ESPHome-Pulse can be seen from the device using the built in web server. Visit the web page:

Seeing your Data

Warnings

Always use a licenced electrician when accessing or modifying household electrical wiring.

Do not lift over high voltage power lines without a network access permit.



The Improv tool will confirm that a Wifi connection has been successfully set.

To setup, continue with the Improv process.

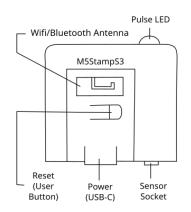
While powered up, press and hold the user button for 4 seconds. The controller LED will flash to indicatethat the device has has been reset.

It may be necessary to do a factory reset to activate the Improv process.

Resetting the Device

ESPHome-Pulse

Installation Guide



Configure with Impro





 Select the serial port to use (eg. USB JTAB/serial debug unit)
Set the Wifi details

- Select: Improv via Serial

Using a **laptop or computer** connected with a USB-C cable Go to the Improv-Wifi website

Configure with USB Serial

- Set the Wifi details
- Select the device to pair with
 - Select: Improv via BLE
- Using a **mobile phone** with Bluetooth Go to the Improv-Wifi website

Configure with Bluetooth

About the ESPHome-Pulse

The ESPHome-Pulse detects the pulses from your electricity meter and makes this data available via Wifi for energy monitoring in real time.

Monitoring the household electricity meter will allow you to know how much power you are consuming as you use your appliances.

Features:

- * Simple to install
- * No Internet, subscriptions or other services required
- * Immediate access via a Web Browser
- * Works with Home Asssitant for long term data storage and energy management

More details, documentation and code on Github https://github.com/PaulSchulz/esphome-pulse Details required: Wifi Network Name Wifi Password

The Improv web page will allow you to set the wifi details for your wifi network, via Bluetooth (BLE) or aUSB Cable (Serial)

Wisit: http://improv-wifi.com



Installation

You will need:

- An Electricity Meter with a pulse LED
- Double sided tape
- USB-C Power Supply or Battery
- Household Wifi Network (2.4GHz)
- Web browser to view data
- * Locate your household electricity meter and find the Pulse LED.
- * Check the pulse rate for your electricity meter. (This is typically 1000 pulses per kWh, the default setting.)
- * With double sided tape, secure the sensor (photo diode) directly over the meters pulse LED.
- * Plug the sensor into the controller, and plug in USB-C for power.
- * Once powered, use Improv to configure the Wifi network details (next page).