

Introduction

With the HomeWizard Energy platform, you can get insights in your energy usage. Use the HomeWizard [Wi-Fi P1 meter](#) to access real-time data directly from your smart meter, the HomeWizard [Wi-Fi Energy Socket](#) to get energy insights from all your devices, the HomeWizard [Wi-Fi kWh Meter](#) to measure devices such as solar panels and the HomeWizard [Wi-Fi Watermeter](#) to get insight in your water usage. With the open API you can integrate the data directly into your system of choice.

HomeWizard Energy API

The HomeWizard Wi-Fi P1 meter, Wi-Fi Energy Socket, Wi-Fi kWh meter and Wi-Fi Watermeter ('device') have a local API to retrieve the most recent measurements or control the device. You can access this API as long as you are connected to the same (Wi-Fi) network as the device and the API is enabled in the HomeWizard Energy app. This API is intended to connect your device to your own automation, home automation or graphing system. It is not possible to retrieve data history with the local API, as this is not stored on the device itself.

Terms and conditions

- **License:** The HomeWizard Energy API is licensed, not sold. HomeWizard grants the user a non-exclusive license (with no right to sub-license) to the HomeWizard Energy API for personal, non-commercial use.
- **Usage:** The user may not directly or indirectly use the HomeWizard Energy API to sell, lease, loan or generate a revenue from a product, system or software using the API
- **Support:** The usage of the HomeWizard Energy API is officially supported by HomeWizard, however HomeWizard can not supply customer service regarding the implementation of the API in your own or third party applications.

Reference: <https://api-documentation.homewizard.com/docs/introduction/>

1 - DISCLAIMER

1.1 - The TIG P1 Home Wizard Energy API Extension Driver integrates with Crestron Home, allowing users to monitor energy readings and meter data for various parameters, including power imports, exports, active usage, gas, heat, and water meters, all within the Crestron Home App.

1.2 SUPPORTED FEATURES IN THIS VERSION:

This driver supports viewing all readings from your meter. Users can set a monthly target for imported energy, with alerts triggered at 50%, 70%, 85%, 95%, and the maximum percentage. When normal operation resumes, default alerts will notify users. This functionality allows users to set monthly targets while integrators can assign event triggers to control the home according to client specifications.

1.3 - HARDWARE REQUIRED:

Crestron series 4 family home processor: MC4-R / CP4-R / DIN-AP4-R

1.4 - SOFTWARE REQUIRED:

Crestron Home OS 3 / OS 4 or later with accessibility to the Home Wizard Energy Device the API is running on.

API -- <https://api-documentation.homewizard.com/docs/endpoints/api-v1-data/>

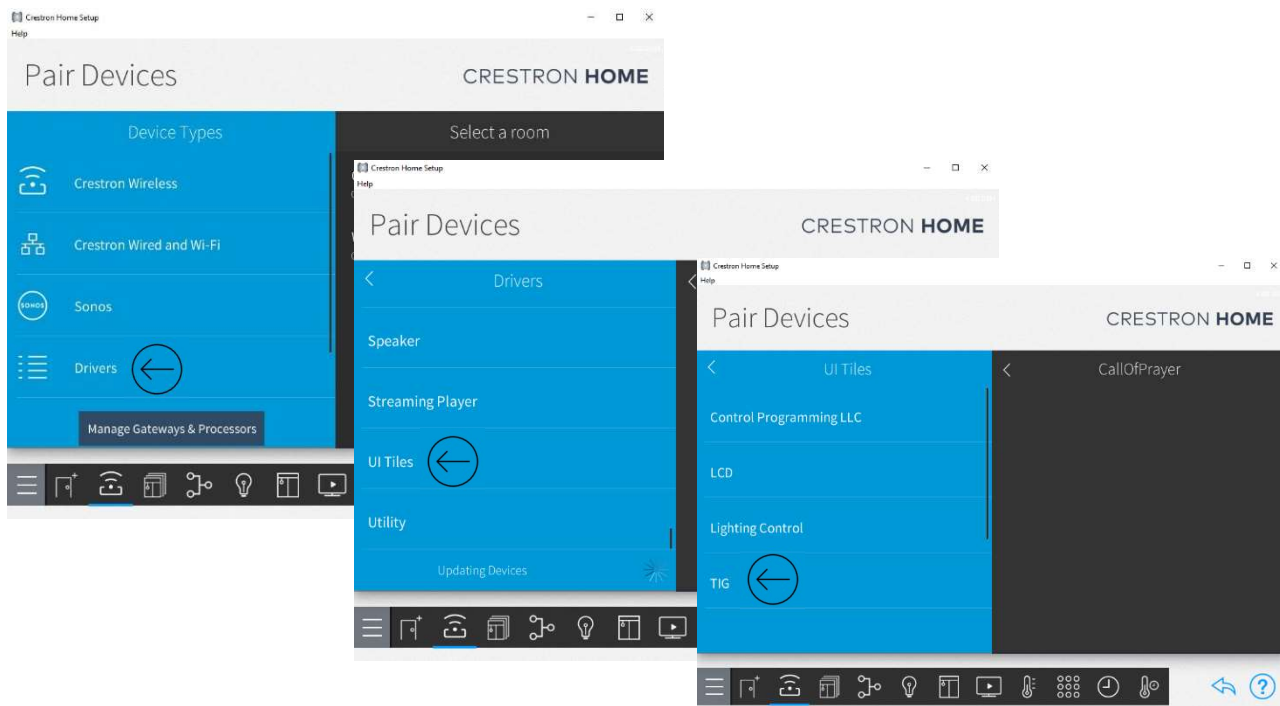
1.5 - NETWORK TOPOLOGY:

Ensure that port 80 is accessible from the Processor to facilitate necessary standard communications.

2.0 - ADDING THE TIG P1 HOME WIZARD ENERGY API EXTENSION TO CH

The P1 HomeWizard Energy API extension will be found under the following location on the CH configurator software:

Device Types > Drivers > UI Tiles > TIG



2.1 - CONFIGURING TIG P1 HOME WIZARD ENERGY API EXTENSION

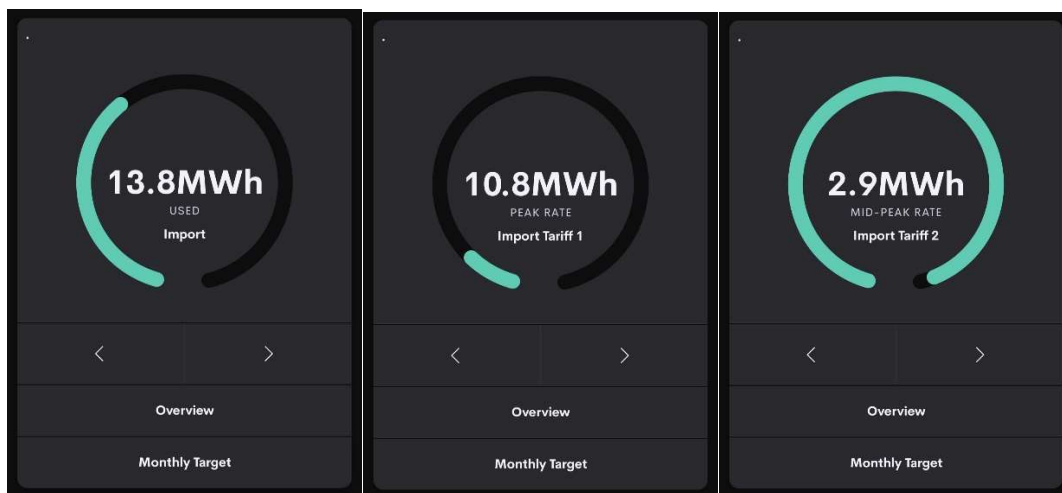
Upon installing the driver, you will be prompted to enter the IP address of the HomeWizard device.

Valid inputs should be within the IP range, such as "192.168.10.202". The tile will be available both in the home overview and in individual rooms. The tile and its values will be visible if the values are present and not null.

2.2 - ENERGY READINGS

The monthly target can be set here to allow event triggers within Crestron CH

2.2.1 - Power Import - (Overall energy consumption across different time periods: T1, T2, T3, T4)

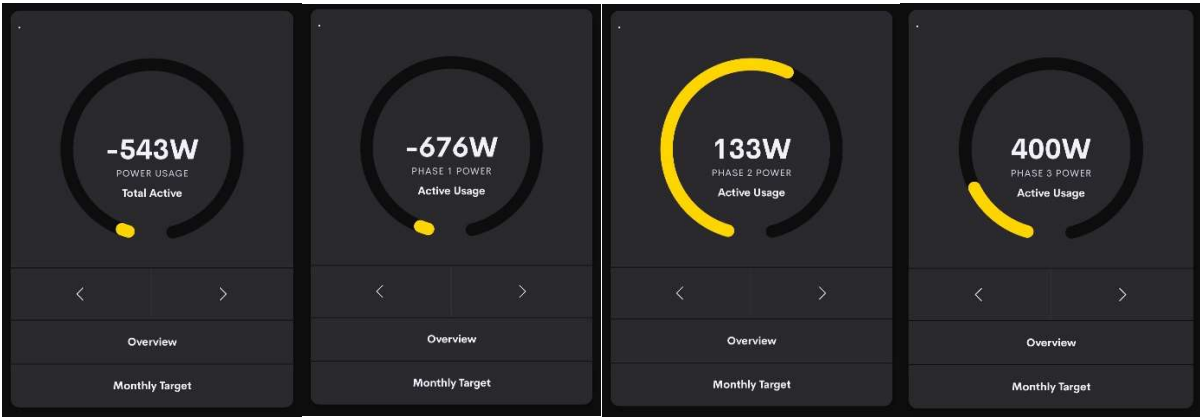


2.3.1 - Total Power Export - (Overall energy generation across different time periods: T1, T2, T3, T4)



2.3.2 - Active Usage

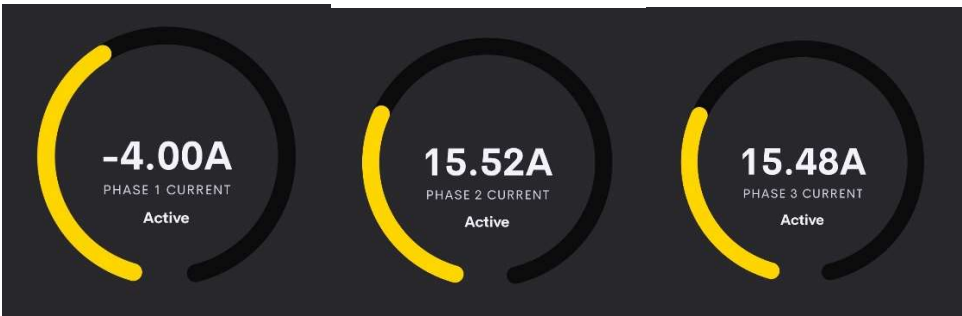
Active Power (Current power consumption for Phase 1, 2 and 3)



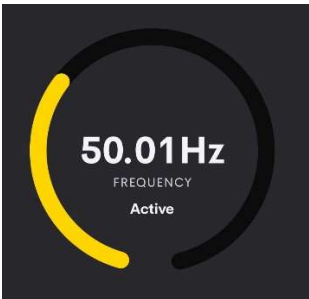
Active Voltage (Voltage levels for different phases)

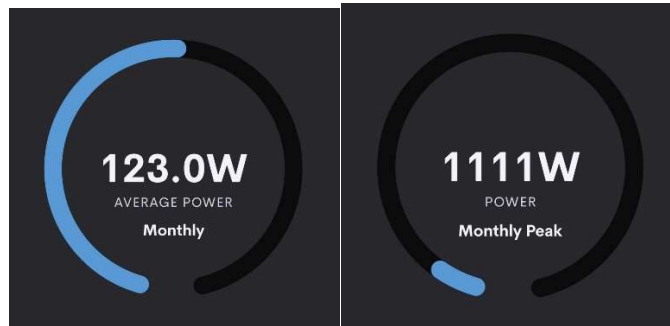
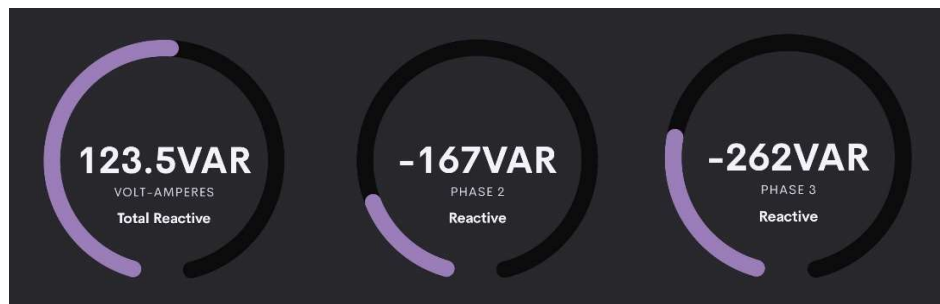
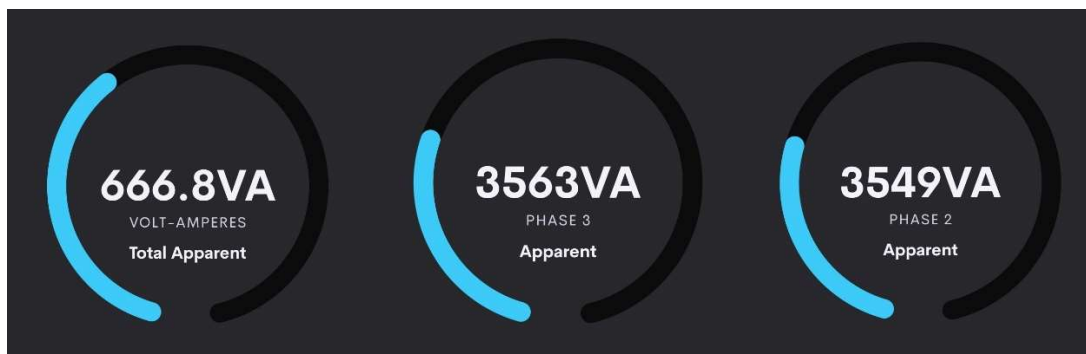
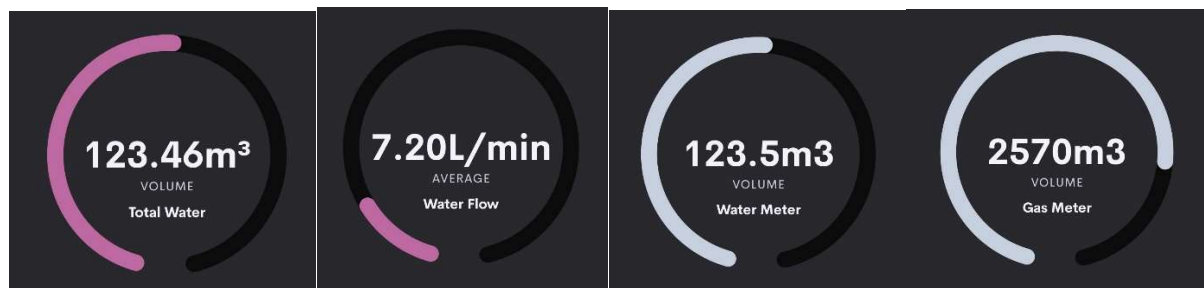


Active Current (Current levels for different phases)



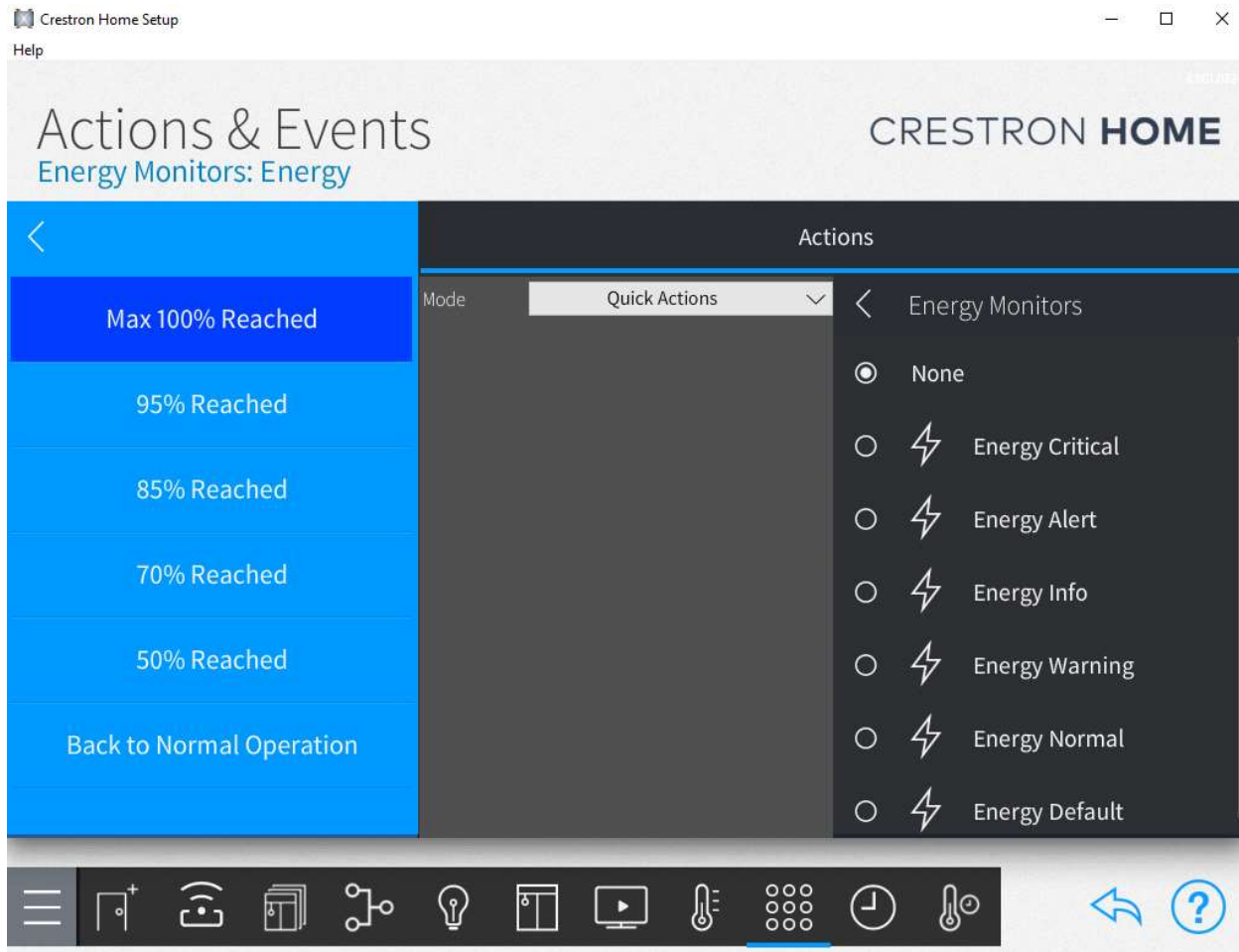
Active Frequency (Frequency measurement)



Apparent Power (Total apparent power across different phases)**Reactive Power** (Total reactive power across different phases in this case Phase 1 = 0)**Power Factor** (Efficiency ratio for different phases in this case Phase 1 = 0)**External readings** (This is backward compatible with outdated devices)

EVENTS

Quick actions can be linked to events to help save electricity, as shown in the screenshot below using the Crestron Home Configurator. This feature allows users to set up specific triggers for different energy consumption levels. For example, when energy usage reaches 50%, 70%, 85%, 95%, or 100%, the system can activate predefined actions like turning off non-essential appliances, adjusting thermostat settings, or dimming lights. This ensures that energy usage is optimized, and potential waste is minimized, aligning with user-defined thresholds and responses to critical states.



RELEASE NOTES:

Version 1.0.0 – Initial Release

Features: Readings for (total_power_import_t1, total_power_import_t2, total_power_import_t3, total_power_import_t4, total_power_import, total_power_export_t1, total_power_export_t2, total_power_export_t3, total_power_export_t4, total_power_export, active_tariff, active_power_l1_w, active_power_l2_w, active_power_l3_w, active_power_w, active_voltage_l1_v, active_voltage_l2_v, active_voltage_l3_v, active_current_l1_a, active_current_l2_a, active_current_l3_a, active_apparent_current_a, active_reactive_current_a, active_frequency_hz, active_apparent_power_l1_va, active_apparent_power_l2_va, active_apparent_power_l3_va, active_apparent_power_va, active_reactive_power_l1_var, active_reactive_power_l2_var, active_reactive_power_l3_var, active_reactive_power_var, active_power_factor_l1, active_power_factor_l2, active_power_factor_l3, active_power_factor, voltage_sag_l1_count, voltage_sag_l2_count, voltage_sag_l3_count, voltage_swell_l1_count, voltage_swell_l2_count, voltage_swell_l3_count, any_power_fail_count, long_power_fail_count, active_power_average_w, montly_power_peak_w, total_gas_m3, total_liter_m3, active_liter_lpm, total_liter_offset_m3, gas_meter, heat_meter, warm_water_meter, water_meter, and inlet_heat_meter)

Backwards compatilbty for the original data points total_gas_m3, gas_timestamp and unique_gas_id use the first detected gas meter and will work if present or when removed.