

## OCTOPUS ENERGY DRIVER FOR CRESTRON HOME

Revision: 1.00

Date: 22 March 2024

### LICENCING

Please visit <https://shop.ultamation.com/index.php/product/223-octopus-energy-driver-for-crestron-home/> to obtain a licence key for your Crestron processor.

### MODULE DESCRIPTION

Please note that this driver will only work on Crestron Home processors running OS 4 and above.

The driver provides information from your Octopus Energy gas or electric meters for display in Crestron Home, including consumption, pricing and cumulative costs for the past day, week, or month. Please note that this information can only be shown for smart meters.

The driver will be found under:

Drivers > Platforms > Octopus Energy

## Adding the Driver

Ensure a room is selected, and then click on the '+' against the Octopus Energy driver.

You will be asked to provide a descriptive name for the driver – this can be anything you wish. You will also need to specify the following:

- The API key associated with your Octopus Energy account. This can be generated from the Octopus Energy online dashboard.
- Your Octopus Energy account number. This can be found in the URL when you log in to your online dashboard.
- Gas/electric meter gauge ranges. These are the values at which the radial gauges on the meters' UIs will appear as full.

You will also be asked to enter a licence key to ensure that the integration will function after the initial one-hour trial period.

A screenshot of a software interface for entering a licence key. It features a grey header bar with an information icon (i) on the left and the title 'Licence Key' in the center. Below the header, on the left, is the instruction 'Enter the licence key associated with this processor's MAC address.' To the right of this text is a white rectangular input field containing the text '1234-ABCD...'.

**Licence Key**

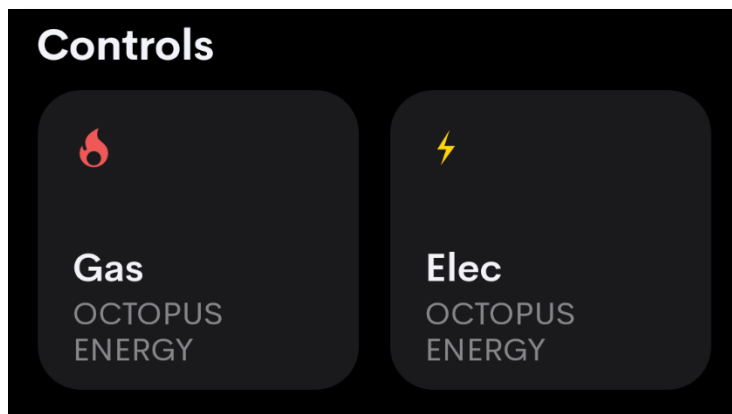
Enter the licence key associated with this processor's MAC address.

1234-ABCD...

The licence key will be emailed to you with your order acknowledgement. The same key can be used for multiple instances in the same system (though different Crestron Home systems will require different licence keys). If you do not enter a valid licence key here, the system will function for 1 hour and then new information will no longer be displayed, and events no longer triggered. The licence key can be entered at any time after initial setup without having to reconfigure each instance.

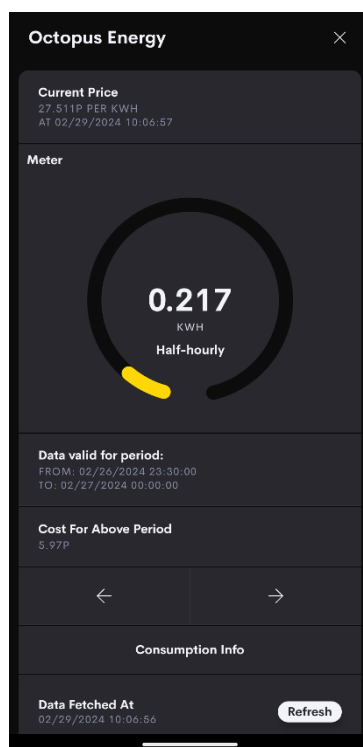
Once added, the driver will query the Octopus Energy API to find meters on your account. When it discovers any, it will add meter objects to the 'Managed Platforms' section of the Crestron Home setup app. You can then press the '+' next to each meter to add them, after which they will be visible on the home screen of Crestron Home. Assuming each meter is a smart meter, the driver will then query the API again and start displaying consumption and pricing data for each smart meter.

## User Interface



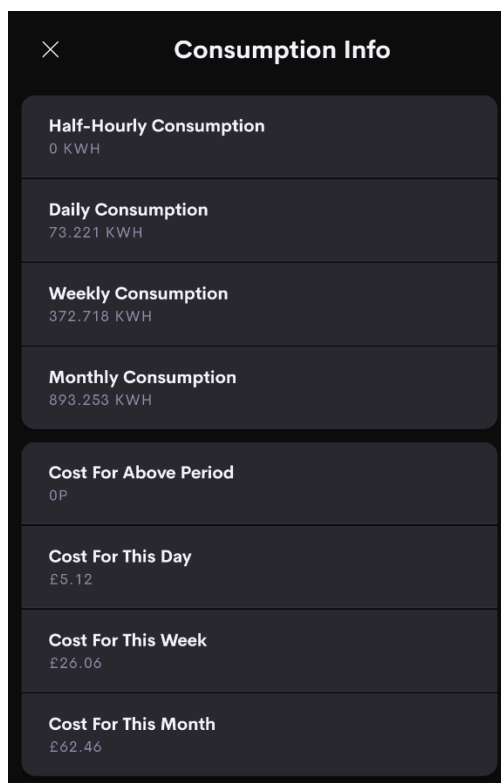
Each tile is shown on the home screen in Crestron Home. It will show the name you input when adding the device.

You can press this tile to bring up a view displaying data from the meter. This includes a radial gauge with consumption data on, the cost for each half-hour period (along with the start and end times for that period), and the time the data was fetched.



The left and right arrow buttons can be pressed to 'scroll' through data for different half-hour periods: pressing left shifts the data back 30 minutes and right shifts the data forward 30 minutes. Note that, while your meter might show consumption up to the current time, the Octopus Energy API doesn't make this data available until at least the day after. As such, the data you can see may only show up to midnight of the prior day.

There are two subpages that can be accessed from this tile. The first is the 'Consumption Info' page, which looks as follows:

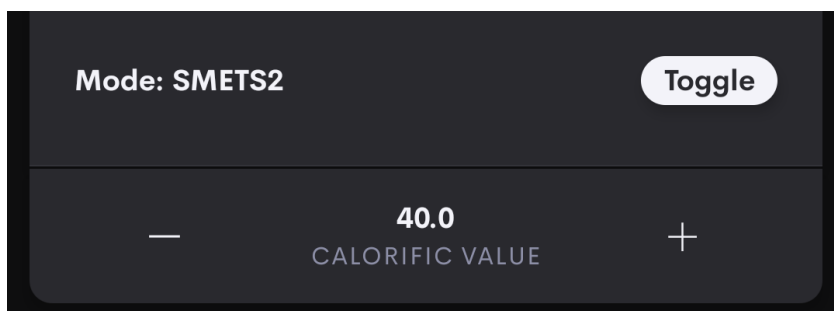


Consumption Info	
Half-Hourly Consumption	0 KWH
Daily Consumption	73.221 KWH
Weekly Consumption	372.718 KWH
Monthly Consumption	893.253 KWH
Cost For Above Period	0P
Cost For This Day	£5.12
Cost For This Week	£26.06
Cost For This Month	£62.46

Here you can see half-hourly, daily, weekly and monthly consumption and pricing values. These are from the latest consumption value, for example, if the latest consumption value is from 1pm on 3/4/2024 (Wednesday) it will calculate the daily values from 00:00 that morning to the latest value. For weekly and monthly these sums start from 00:00 on the first day of that week (Monday) or the 1<sup>st</sup> of that month.

If you scroll down, you'll find the second subpage: the 'Meter Details' page. Here you can see the meter type (gas or electric), the serial number of the meter, the Octopus Energy product name and tariff name, and the MPRN or MPAN for the meter.

If the meter is a gas meter, you will also see a button labelled 'Mode: SMETS1'. Tapping this button toggles between SMETS1 mode and SMETS2 mode, which affects how the consumption (and by extension, pricing) data is calculated. Set this mode to the correct mode for your gas meter to get more accurate data.



When set to SMETS2 mode, you will see an extra raise/lower control, labelled 'Calorific Value'. Calorific value can vary, and is used in the calculation of consumption data, so if this is incorrect you will get inaccurate data. The value defaults to 40, but you can find the correct calorific value on your gas bill. Please note that, due to these complications with calculating gas consumption, the data shown for gas consumption (and, by extension, pricing) may not be 100% accurate, but it is a best estimate.

## SUPPORT

If you have any issues with a driver or installation please let us know by contacting Ultamation support on [support@ultamation.com](mailto:support@ultamation.com) and please include as much detail about your issue as possible, such a recent processor error log.

Licence verification messages are posted to the error log, so please ensure you have checked this.

## LICENCE

This module (including software, images and any and all other associated assets distributed as part of the purchased download package) is licenced on a PER PROCESSOR basis.

A licence key is generated at the point of purchase and is linked at that time to specific information that MUST be provided at the time of purchase. A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

The licence key for each device will be delivered via email along with links to download the module. There is no physical delivery.

The module is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the module's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this module and this will be a separate, purchasable, product.