

# Sense Energy Monitor Control4 Driver



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## Compatible Control4 Systems:

Designed to work with OS 2.9.1, 2.10.6, 3.0+

## Compatible Hardware:

Sense Energy Monitor, Wiser Energy Monitor

## License Purchase, Driver Download & Change Log:

Please visit <https://www.drivercentral.io>

## Documentation

<https://drivercentral.io/platforms/control4-drivers/utility/sense/>

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## Features/Overview

- Realtime Grid, Solar, and Load monitoring
- Alerts for Voltage Min/Max thresholds exceeded
- High Energy Threshold alert (ideal for Time of Use and Peak Demand energy customers)
- Custom UI dashboard for Control4 T3 and T4 touchscreens

## Dealer Notes

Driver communicates via Cloud to Sense.

Loads are learned via Sense AI machine learning algorithm. Once energy loads are found (like microwave, hot tub), Composer event triggers can be used to listen to the on/off events. Sense has many articles and videos on proper setup of the unit.

## Setup

- Add driver to project
- Enter email address of customer
  - Customer will need to click activation link provided in email
- Once account has been validated, driver is set up and ready to use!
- Refresh Navigators

## WebUI/Dashboard

To access the WebUI dashboard from a Control4 T3 or T4 Touchscreen, locate the Sense Energy Monitor icon under Security, and click on the icon

## Driver Events and Notifications

The Sense Energy Monitor Control4 driver can be configured to send push and/or email notifications through the driver without additional programming. The events and default notification settings are described below.

The driver uses the Cindev Notification System. For more information please visit, <https://www.cindev.com>

### HIGH\_ENERGY

Triggered when the Home's Energy Consumption (Composer Variable: ENERGY\_CONSUMPTION) exceeds the Property High Energy Threshold (default: 15,000 watts)

Composer Event: High Energy Usage

History Event: Yes (Warning Level)

Message: Home is consuming a high amount of energy. Currently [ENERGY\_CONSUMPTION] watts

Push: Yes (Alert Level)

Voice: No

Customer Email: Yes

Service Email: No

### TIMELINE\_EVENT

Triggered when the Sense adds an event to the timeline.

Composer Event: New Timeline Event

History Event: Yes (Warning Level)

Message: [TIMELINE\_EVENT]

Push: No

Voice: No

Customer Email: No

Service Email: No

### VOLTAGE\_SURGE

Triggered when the home voltage is above Property Voltage Max Threshold (default: 135 volts)

Composer Event: Voltage Surge

History Event: Yes (Critical Level)

Message: Electrical Surge Detected. Voltage is [ENERGY\_VOLTAGE] volts

Push: Yes (Alarm Level)

Voice: No

Customer Email: No

Service Email: No

### VOLTAGE\_DROP

Triggered when the home voltage is below Property Voltage Min Threshold (default: 105 volts)

Composer Event: Voltage Drop  
History Event: Yes (Critical Level)  
Message: Electrical voltage drop detected. Voltage is [ENERGY\_VOLTAGE] volts  
Push: Yes (Alarm Level)  
Voice: No  
Customer Email: No  
Service Email: No

## OFFLINE

Triggered when the Control4 system cannot communicate with Sense or Energy Monitor is offline

Composer Event: Sense Offline  
History Event: Yes (Warning Level)  
Message: [NAME] is offline or not communicating with Control4  
Push: No  
Voice: No  
Customer Email: No  
Service Email: No

## ONLINE

Triggered when the Control4 system connects with Sense

Composer Event: Sense Online  
History Event: Yes (Warning Level)  
Message: [NAME] has connected to Control4  
Push: No  
Voice: No  
Customer Email: No  
Service Email: No

## Composer Variables

**TIMELINE\_EVENT** (string) The last timeline event that was received. Example: Microwave has turned on.  
Timeline events are configured in the Sense App.

**PRODUCING\_SOLAR** (boolean) if the Sense is reading solar power, the variable will be true. Note: Boolean values in Control4 are read as 0 = False, 1 = True

**ENERGY\_CONSUMPTION** (number) variable listing the current consumption value of the home in watts.  
Note: The Property Wattage Threshold defines the amount of difference in wattage for an update of this value. The greater the number, the less variable updates will occur

**ENERGY\_PRODUCTION** (number) variable listing the current production (solar wattage) value of the update of this value. The greater the number, the less variable updates will occur

**ENERGY\_GRID** (number) variable listing net reading of energy to/from the Grid in watts. If this number is negative, it shows the amount of energy going TO the grid. If this number is positive, it shows the amount of energy coming FROM the grid. Note: The Property Wattage Threshold defines the amount of difference in wattage for an update of this value. The greater the number, the less variable updates will occur

**LAST\_DEVICE\_ON** (string) variable of the last device that turned on. Example: Microwave Devices are configured via the Sense App

**LAST\_DEVICE\_OFF** (string) variable of the last device that turned off. Example: Microwave Devices are configured via the Sense App

## Development Tools

Driver was built in conjunction with Sense. Driver uses official API (V1 2020)

WebSockets communication: Control4 WebSockets package adapted by Cindev

Push Notification uses the Control4 MyHome app and 4Sight

Email Notifications use Cindev Notification System (SendGrid Email API).

DriverCentral Licensing and Driver Management including Auto Update

UI Dashboard/UI Agent Code by Cindev

## Warranty & Disclaimer

<https://www.cindev.com/terms-and-conditions>