SAVANT

Savant® Standalone Energy Monitor Deployment Guide

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This guide will lead the installer through the process of installing, configuring, and adding a Savant Energy Monitor to a RacePoint Blueprint™ configuration. Savant Energy Monitors are connected to a home's existing electrical panel using clip-on current transformers, and to the Savant Host via the local network. They allow the user to monitor all aspects of energy usage including heating, appliances, lighting, and more. Savant Energy Monitoring can provide data on the home's overall energy use and production that is viewable any time - locally or remotely.

Products supported by this guide include:

- SmartEnergy Monitor [SEM-1024]
- Savant Standalone Energy Monitor [SEM-2015]

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Contents

1.	Deployment Steps	4
2.	System Diagrams	5
	2.1. Single Phase Consumption Only (Typical 200 Amp Service)	5
	2.2. Three Phase Consumption Only	6
	2.3. Single Phase with Power Generation	7
3.	Installation	8
	3.1. Flat Surface	8
	SEM-2015	8
	SEM-1024	8
	3.2. Din Rail	9
	3.3. Voltage Transformers	10
	3.4. Current Transformers	11
4.	Blueprint	12
	4.1. Adding a Energy Monitor to a Configuration	12
	4.2. Energy Monitor Data Table	13
	Add Parent Circuit (SEM-1024 Only)	13
	Add Parent Circuit (SEM-2015 Only)	14
	Adding a Child Circuit	15
	Example Data Tables	16
5.	Web User Interface (Web UI SEM-2015 Only)	18
Ар	pendix A: Accessories	19
An	pendix B: Energy Monitor Data Table Index	21

Important Safety Information - Read First

Before installing, configuring, or operating any equipment, Savant recommends that each dealer, integrator, installer, etc. access and read all relevant technical documentation. Savant technical documentation can be located by visiting Savant.com. Vendor documentation is supplied with the equipment.

Read and understand all safety instructions, cautions, and warnings in this document and the labels on the equipment.

Safety Classifications In this Document

NOTE:	Provides special information for installing, configuring, and operating the equipment.
IMPORTANT!	Provides special information that is critical to installing, configuring, and operating the equipment.
CAUTION!	Provides special information for avoiding situations that may cause damage to equipment.
WARNING!	Provides special information for avoiding situations that may cause physical danger to the installer, end user, etc.

Electric Shock Prevention

ELECTRIC SHOCK!	The source power poses an electric shock hazard that has the potential to cause serious injury to installers and end users.
ELECTRICAL DISCONNECT:	The source power outlet and power supply input power sockets should be easily accessible to disconnect power in the event of an electrical hazard or malfunction.

Weight Injury Prevention

*	Installing some of the Savant equipment requires two
WEIGHT INJURY!	installers to ensure safe handling during installation.
VVLIOITI INSORT:	Failure to use two installers may result in injury.

Safety Statements

All safety instructions below must be read, understood, and carefully followed under all applicable circumstances when working with any Savant equipment.

- 1. Follow all input power ratings marked on product near power input!
- 2. If fuse replacement is required, replacement fuse should match fuse rating marked on the product.
- 3. Do not use equipment near water.
- 4. Clean only with dry cloth.
- 5. Do not block any ventilation openings or install near any heat sources such as heat registers, stoves, radiators, amplifiers, etc.
- 6. Refer all servicing to qualified service personnel. Servicing is required when any part of the apparatus has been damaged in any way, or fails to operate normally for any reason.
- Use only attachments/accessories specified by the manufacturer, following all relevant safety precautions for any such attachments/ accessories.
- For applicable equipment, use the included power cord with the grounding prong intact to insure proper grounding of the device.
- 9. If the provided plug does not fit the desired outlet, contact a licensed electrician to replace the obsolete outlet.
- Protect any power cord from being walked on, pinched, strained, or otherwise potentially damaged, especially at the outlet or device connections.
- Disconnect any outlet powered apparatus from its power source during lightning storms or when unused for long periods of time.
- To completely disconnect equipment from AC mains power, disconnect the power supply cord plug from the AC receptacle on the device.
- 13. For any hardwired or fixed in-wall apparatus, carefully follow all wiring diagrams and instructions. All electrical wiring and servicing should be performed by a properly licensed electrician.

Deployment Steps

Follow the steps below to successfully deploy a Savant Energy Monitor. This page can be used as a checklist to mark progress as steps are completed
Review product specifications and connection details
Install Energy Monitor
Add the Energy Monitor into a RacePoint Blueprint™ configuration
Enter circuit information into the Energy Monitor Data Table

Supported Release

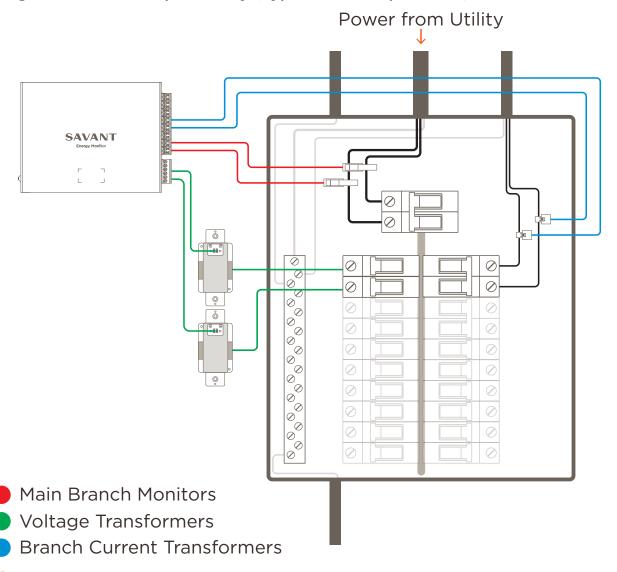
Device	Minimum Supported Release
SEM-1024	da Vinci 5.2.3
SEM-2015	da Vinci 9.1



IMPORTANT! Monitoring of a generator power source in a system that uses load management requires a SEM-2015.

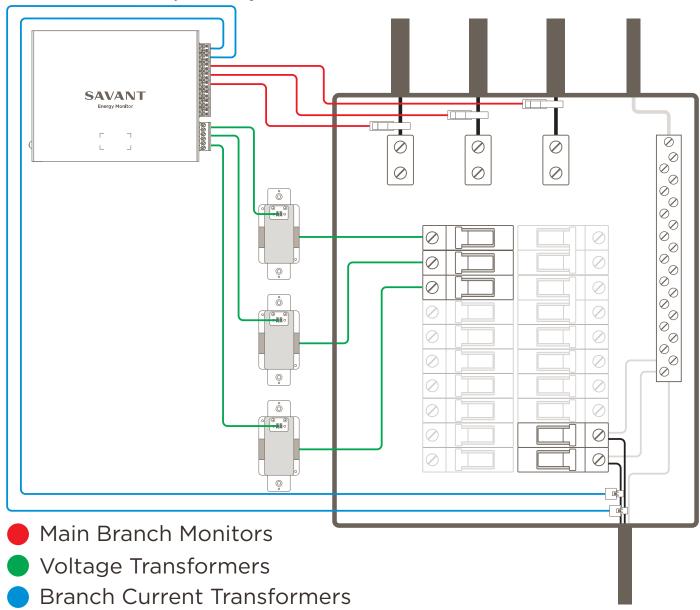
2. System Diagrams

2.1. Single Phase Consumption Only (Typical 200 Amp Service)



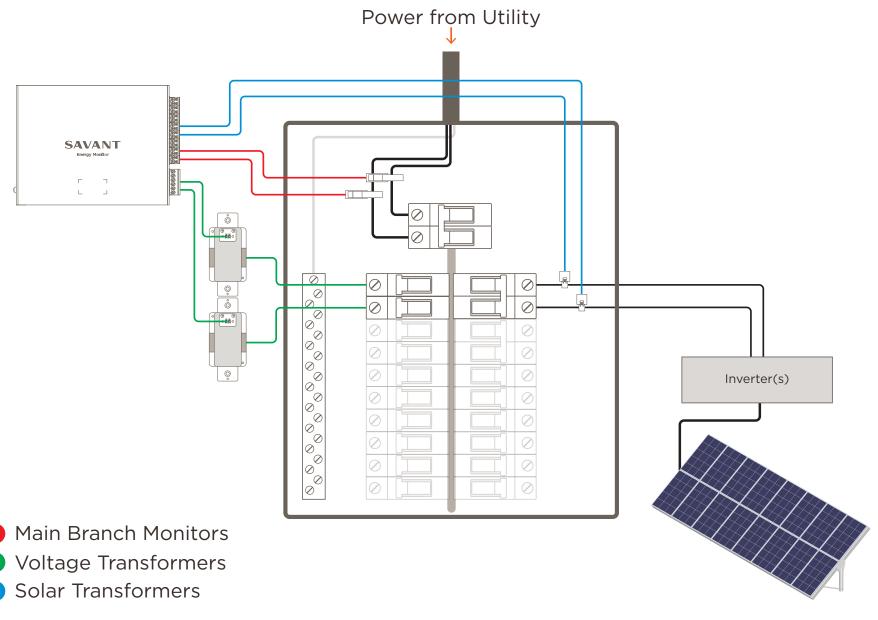
TIP! For single phase systems that only have one power line coming into the house. Only one voltage transformer is required. This normally is for 100 Amp service or below.

2.2. Three Phase Consumption Only



2.3. Single Phase with Power Generation

The image below shows Solar (Photovoltaic) generation. This example holds true for Wind, Geothermal, or Auxiliary Generators.



IMPORTANT! Monitoring of a generator power source in a system that uses load management requires a SEM-2015.

3. Installation

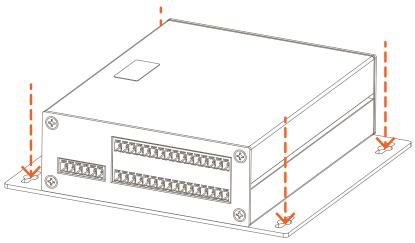
3.1. Flat Surface

SEM-2015

Mounts to a wall or similar surface. Mount chassis in a place that is dry, well ventilated, and out of direct sunlight.

The SEM-2015 comes with the mounting plate installed.

- Set the SEM-2015 onto the wall where it will be mounted. The SEM-2015 can be positioned with ports facing vertically or horizontally. Level the unit and mark on the wall the mounting holes in the mounting plate.
- 2. If there is a sub-wall to screw into, screw unit to wall using appropriate screws. If no sub-wall is available, wall anchors can be used.



SEM-1024

Mounts to a wall or similar using the included chassis mounted side brackets and supplied M3 x 8mm flat head screws. Mount chassis in a place that is dry, well ventilated, and out of direct sunlight.

- 1. Remove side brackets and M3 x 8mm screws from shipping box.
- Align the holes in the bracket with threaded holes on the two short sides of the SEM-1024 energy monitor.
- 3. Screw bracket to chassis using the supplied M3 x 8mm screws. Do not over-tighten.
- 4. Set the SEM-1024 onto the wall where it will be mounted. The SEM-1024 can be positioned with ports facing vertically or horizontally. Level the unit and mark on the wall the mounting holes in the two brackets.
- If there is a sub-wall to screw into, screw unit to wall using appropriate screws. If no sub-wall is available, wall anchors can be used.

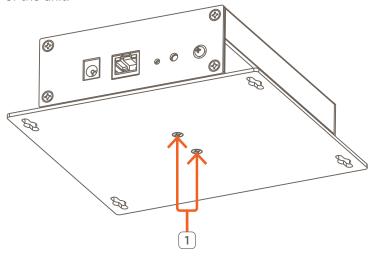


3.2. Din Rail

The SEM-2015 has an included universal din rail clip.

To install using a Din Rail do the following:

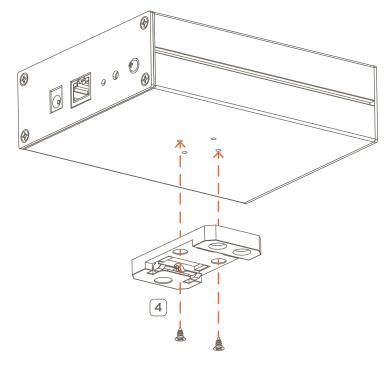
1. Remove the screws holding the mounting plate on the bottom of the unit.



- 2. Remove the mounting plate.
- 3. Align the Universal Din Rail Mounting Clip on the bottom of the unit.

NOTE: The clip can be mounted facing either direction.

4. Attach using the screws from the mounting plate.



3.3. Voltage Transformers

The SEM-VT01 is a highly accurate voltage transformer that reduces the input voltage by a factor of 0.00111. For example, if the input voltage is 120V AC, the output of the SEM-VT01 will be 0.133V_{PMS}. By reducing the voltage, the SEM-2015/SEM-1024 can monitor individual circuits with exceptional accuracy.

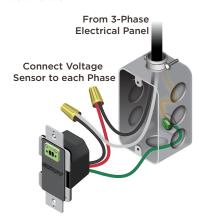


IMPORTANT INFO!

- One voltage transformer is required for each phase.
- Install SEM-VT01 voltage sensor as close as possible to the electric breaker panel.
- Between the voltage transformer and the SEM-2015/SEM-1024 it is best to have as short as a run as possible.
- Voltage transformers should be installed on there own breakers with no load attached.

Savant requires a licensed electrician be used to connect the SEM-VT01 to the high voltage side. Follow instructions below to install. The instructions assume the electrical outlet boxes are mounted and an electric circuit is run into the box.

- Switch the circuit breaker to the circuit that the SEM-VT01 is being added to.
- Using diagram to the right, make high voltage connections.
- 3. Screw the SEM-VT01 into the electrical box.
- 4. Using the supplied 2-pin screw down connectors and #18 AWG wire, install the wires into the 2-pin connector. Refer to the connector diagrams below when wiring.
- For instructions on how to install wires into the 2-pin connectors, refer to step 4 of the Install Current Transformers section.







- Once all connections are made, switch the breaker back ON.
- HELPFUL INFO: Each voltage transformer is capable of supporting up to three SEM-2015 units, provided the following requirements are met:
 - SEM-2015 units must be connected in a daisy chain pattern.
 - Wiring used must be 18 AWG or greater twisted pair.
 - Total run length must not exceed 8 ft (2.4 m).

Additional voltage transformers must be utilized when deploying more than 3 SEM-2015 units.

3.4. Current Transformers



SAFETY PRECAUTIONS! Before beginning the installation process, read through the following precautions.

- The installation of a current transformer requires making connections within an electrical panel. Savant recommends that a licensed electrician perform the installation.
- The install should obey all local electrical codes.
- Only current transformers offered from Savant are supported. These CT's are internally shunted and safer than other commercially available current transformers

Connecting Current Transformers

Follow instructions below when installing the current transformers into an electrical breaker panel.

- Remove power from electrical panel by switching the main breaker to the **Off** position.
- 2. Remove the electrical panel front cover and set aside. With a voltage tester, verify power was removed to the individual breakers.
- Install the current transformers over each conductor being monitored. Depending on the current transformer being used will determine how it is installed. See below.

20 and 50 Amp Current Transformers

- A. Pry the clip on the side away from the housing and hinge open the current transformer.
- B. Position the conductor being measured into the opening of the current transformer. Close the current transformer ensuring the clip on the side snaps into place.



🚹 IMPORTANT! To observe proper polarity, install the 20 and 50A current transformers with arrows pointing in the direction of current flow

C. Route the wire through a cable clamp on the side of the panel and run wire to the SEM-2015 chassis.

150 Amp Current Transformers

- A. Squeeze the handle on side of current transformer until the opposite end opens.
- B. Position the open end of current transformer over the conductor and release the handle so the wire settles inside the opening of current transformer.



IMPORTANT! To observe proper polarity, install the 150A or larger current transformers with the label on the current transformer facing the source of the power.

- C. Route the wire through a cable clamp on the side of the panel and run wire to the SEM-2015/SEM-1024.
- 4. Following steps below, install the supplied 2-pin screw down connector onto the wires of each current transformer.
- A. With a small slotted screwdriver, turn the screws on the connector counterclockwise (CCW) until the silver crimps open enough to slide the stripped wire into the square slots.
- B. Strip back insulation on each wire to 1/4" and insert the stripped wire into proper connection. See the Current Transformer and Voltage Sensor Input Polarity section for polarity information.
- C. Turn screws clockwise (CW) until the crimps tighten around each wire. Tug on wires to verify they are secure. Continue until all current transformers have a connector added.
- 5. Plug the connector into the appropriate current transformer input on the SEM-2015/SEM-1024.
- Replace the breaker panel front cover once all current transformers are installed.
- 7. Switch main breaker to the **ON** position.

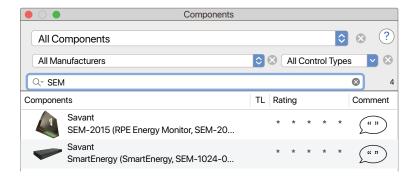
4. Blueprint

The subsections below describe the required steps for configuring a Savant Energy Monitor device within RacePoint Blueprint.

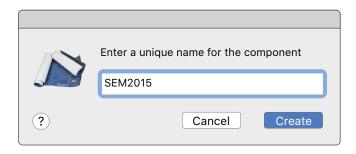
4.1. Adding a Energy Monitor to a Configuration

From on open Blueprint configuration do the following:

- 1. Click Show Library.
- Search for SEM.

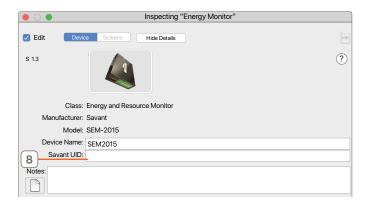


- 3. Highlight the matching Energy Monitor and drag into a **Shared Equipment zone** in the **Component List** pane.
- 4. Name the device.



5. Drag the Energy Monitor in the **Layout** window.

- 6. Select the Energy Monitor.
- 7. Open Inspector (Command + I).
- 8. Enter the UID.



4.2. Energy Monitor Data Table

The Energy Monitor data table represents all circuits monitored by the Energy Monitor and must be configured manually. The following examples demonstrate how to configure the Energy Monitor Data Table for specific deployments. For more information on the Energy Monitor data table, see Appendix B: Energy Monitor Data Table Index.

Add Circuit (SEM-2015)

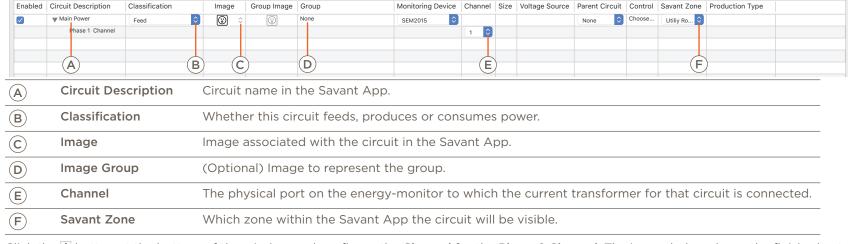
This example below demonstrates the configuring an Energy Monitor to measure the main feed. A typical single phase system will have 2 legs. The process for adding any circuit is largely the same, with two notable differences. The **Classification** column varies based on what circuit is being added and the quantity of **Phase Channels** is based on the number of slots the breaker uses in the panel.

From an open Blueprint configuration do the following:

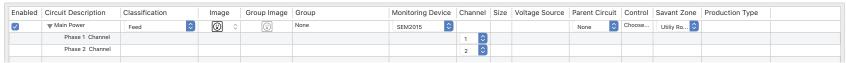
- 1. Navigate to Tools > Settings > Energy Monitor....
- 2. At the top of the table, use the **Energy Consumption** dropdown to select the maximum energy (in kW) limit to display in the Energy Consumption Gauge in the Savant App.
- 3. Click the + sign.
- 4. Select the Energy Monitor to be used.



5. Click the Circuit Description disclosure triangle and configure the entry as follows:



6. Click the 🗄 button at the bottom of the window and configure the Channel for the Phase 2 Channel. The image below shows the finished entry.





IMPORTANT! When configuring SEM-2015 devices, the size and voltage source must be defined within the component's web UI. Refer to the Web User Interface section below for details.

Add Circuit (SEM-1024)

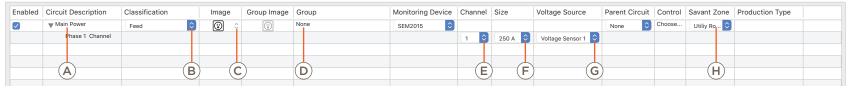
This example demonstrates how to measure the main feed for the house. A typical single phase system will have 2 legs. The process for adding any standard circuit is the same except the Classification is different based on what is being added. Then number of phase channels is based on the number of slots the breaker uses in the panel.

From an open Blueprint configuration do the following:

- Go to Tools > Settings > Energy Monitor...
- 2. At the top of the table, use the **Energy Consumption** drop-down to select the maximum energy (in kW) limit to display in the Energy Consumption Gauge in the Savant App.
- 3. Click the +.
- 4. Select the Energy Monitor to be used.



5. Click the Circuit Description disclosure triangle and configure the entry as follows:



A	Circuit Description	Circuit name in the Savant App.
B	Classification	Whether this circuit feeds or consumes power.
C	Image	Image associated with the circuit in the Savant App.
D	Image Group	Optional image to represent the group.
E	Channel	The physical port on the energy-monitor to which the current transformer for that circuit is connected.
F	Size	The matching capacity of the current transformers used for the circuit.
G	Voltage Source	The available voltage monitoring sources corresponding to the phase channels of the circuit.
H	Savant Zone	Which zone within the Savant App the circuit will be visible.

- 6. Click the \pm button at the bottom of the window.
- 7. Configure Channel, Size, and Voltage Source for the Phase 2 Channel. The image below shows the finished entry.

Enabled	Circuit Description	Classification	Image	G	roup Image	Group	Monitoring Devi	ce (Channe	1 5	Size		Voltage Source	Parent Circu	it Contro	Savant Zone	Production Type	
	▼ Main Power	Feed	(3)	0		None	SEM2015	\$						None	Choose	Utiliy Ro		
	Phase 1 Channel								1 0		250 A	\$	Voltage Sensor 1					
	Phase 2 Channel								2 0		250 A	\$	Voltage Sensor 2					

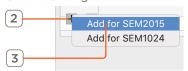
Adding a Child Circuit

Follow the steps below to add a child circuit where applicable. The same process applies for SEM-2015 and SEM-1024 devices, apart from minor differences described in the previous sections.

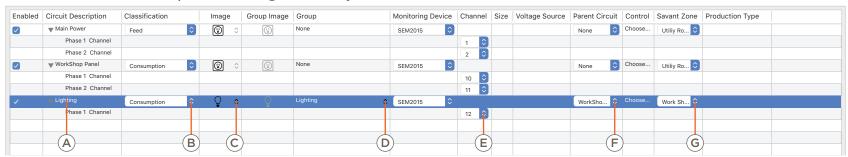
This example adds a Lighting circuit to a secondary panel to power a workshop. The image under step 4 shows the parent circuit for this sub-panel and the Main Power feed previously configured. This represents the feed to the sub-panel. However, this is not classified as a Feed circuit because its power consumption is a part of the main feed coming into to the house.

From an open Blueprint configuration do the following:

- Go to Tools > Settings > Energy Monitor....
- 2. Click the + sign.



- 3. Select the Energy Monitor to be used.
- 4. Double click on Circuit Description and configure the entry fields.

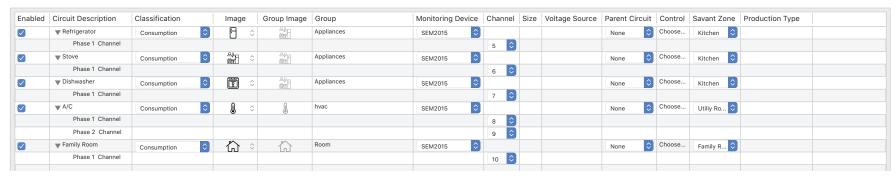


A	Circuit Description	Circuit name in the Savant App.
B	Classification	Whether this circuit feeds, produces or consumes power.
<u>C</u>	Image	Image associated with the circuit in the Savant App.
D	Image Group	Optional image to represent the group.
E	Channel	The physical port on the energy-monitor to which the current transformer for that circuit is connected.
F	Size	The matching capacity of the current transformers used for the circuit.
G	Parent Circuit	When using a current transformer on the Main Power Feed, select the appropriate parent circuit so that energy readings from this device do not double-report on the energy consumption total.
H	Savant Zone	Which zone within the Savant App the circuit will be visible.

Example Data Tables

Consumption Only (Key Loads)

The example below shows a completed Energy Monitor Data Table configured for monitoring of key loads only - the main power feed for the site is not monitored in this setup.



Consumption Only (Main Feed + Key Loads)

This example shows the Main Power feed being monitored and the key loads. All of the key loads are child circuits of the Main feed. This will allow the user to know the total amount of power being used, as well as track the key loads in the house.



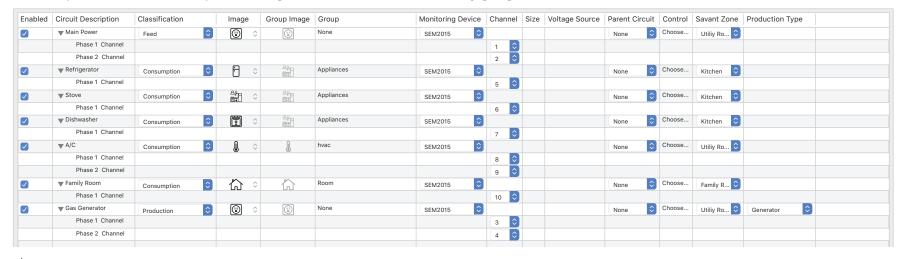
Solar (Grid-Tied)

The example below shows a completed configuration that includes solar panels.

Enabled	Circuit Description	Classification		Image		Group Image	Group	Monitoring Device	Chan	nel	Size	Voltage Source	Parent Circ	uit	Control	Savant Zone	Production Type	
✓	▼ Main Power	Feed		(\$		None	SEM2015	3				None	\$	Choose	Utiliy Ro 🗘		
	Phase 1 Channel								1	\$								
	Phase 2 Channel								2	\$								
✓	▼ Refrigerator	Consumption	\$	8	\$		Appliances	SEM2015	3				None	\$	Choose	Kitchen 🗘		
	Phase 1 Channel								5	0								
2	▼ Stove	Consumption	\$		\$	A)-,	Appliances	SEM2015	3				None		Choose	Kitchen 🗘		
	Phase 1 Channel								6	\$								
~	▼ Dishwasher	Consumption	\$	Ī	\$	A.J.	Appliances	SEM2015	3				None	\$]	Choose	Kitchen 🗘		
	Phase 1 Channel								7									
✓	▼ A/C	Consumption	\$	I	\$	I	hvac	SEM2015	3				None	\$	Choose	Utiliy Ro 🗘		
	Phase 1 Channel								8	\$								
	Phase 2 Channel								9	\$								
~	▼ Family Room	Consumption	\$	仚	\$	1	Room	SEM2015	3				None	\$	Choose	Family R		
	Phase 1 Channel								10	0								
✓	▼ Gas Generator	Production	\$	#	\$	4	Solar	SEM2015	3				None	\$	Choose	Utiliy Ro 🗘	Solar	
	Phase 1 Channel								3	0								

Auxiliary Generator

The example below shows a completed configuration that includes an auxiliary gas generator.



IMPORTANT! Monitoring of a generator power source in a system that uses load management requires a SEM-2015.

Three Phase with Sub-Panel

The example below shows a completed data table for a system that uses two SEM-2015s and has a secondary panel for a work shop.

Enabled	Circuit Description	Classification		Image	Group Image	Group	Monitoring Devi	ce C	hannel	Size	Voltage Source	Parent Circuit	Control	Savant Zone	Production Type	
	₩ Main Power	Feed	•]	蟗	> 🛣	Grid	SEM2015 01	\$				None 🗘	Choose	Utiliy Ro		
	Phase 1 Channel								1 🗘							
	Phase 2 Channel								2 🗘							
	Phase 3 Channel								3 🗘							
✓	▼ Refrigerator	Consumption	0	П		Appliances	SEM2015 01	\$				None	Choose	Kitchen 🗘		
	Phase 1 Channel				601.1				4 🗘							
✓	▼ Stove	Consumption	\$	Δμ	♦ Al-	Appliances	SEM2015 01	\$				None	Choose	Kitchen 🗘		
	Phase 1 Channel			BIALL	. 66				5 🗘				<u>'</u>			
~	▼ Dishwasher	Consumption	\$	Ī	♦ Ale	Appliances	SEM2015 01	\$				None 🗘	Choose	Kitchen 🗘		
_	Phase 1 Channel	(لت					6 🗘							
7	▼ A/C	Consumption	\$	<u> </u>	\$ B	hvac	SEM2015 01	\$	-			None 🗘	Choose	Utiliy Ro		
	Phase 1 Channel	(•	- 0		(4200200	_	7 🗘			Citation	'	Comp. com		
	Phase 2 Channel								8 🗘							
✓	▼ Family Room	Consumption	\$	Û	≎	Room	SEM2015 01	\$				None 🗘	Choose	Family R		
	Phase 1 Channel	Consumption	V	ഥ	<u> </u>		OLINZO10 01		9 🗘			140110	'	Tunny tun		
7	₩ Work Shop	Consumption	\$	(7)	♦ (₹)	None	SEM2015 02	\$				None 🗘	Choose	Work Sh 🗘		
	Phase 1 Channel	Consumption	V	0	v O		SEMEOTS OF		1 🗘			None	,	Work Sil		
	Phase 2 Channel								2 🗘							
✓	▼ Shop Lighting	Consumption	\$	Q	φ Ω	Lighting	SEM2015 02	\$	2			Work Shop 🗘	Choose	Work Sh 🗘		
	Phase 1 Channel	Consumption					3EW2013 02	_	3 🗘			Work Shop	,	TIOTA GIII		
▽	▼ Left Wall Outlets		\$	(3)	≎ 🐷	Outlet	SEM2015 02	\circ	J			Work Shop 🗘	Choose	Work Sh		
_	Phase 1 Channel	Consumption		١	v		3EM2013 02		4 🗘			Work Shop		WOLK SIL		
▽	▼ Right Wall Outlets	Consumation	\$	(3)	≎ 🐷	Outlet	SEM2015 02	\$	4			Work Shop 🗘	Choose	Work Sh 🗘		
	Phase 1 Channel	Consumption		۳	*		3EW2013 02		5 🗘			WOLK SHOP		WOLK SIL		
	▼ Floor Outlets	O	0	(3)	≎ 🐷	Outlet	SEM2015 02	\$	J V			Work Shop 🗘	Choose	Work Sh 🗘		
_	Phase 1 Channel	Consumption	~	ட	·		SEM2010 02	~	6 🗘			WOLK SHOP	,	WOLK SII		
✓	▼ Shop Heat Pump			n		hvac	SEM2015 02	\circ	U V			Work Shop 🗘	Choose	Work Sh 🗘		
<u> </u>	Phase 1 Channel	Consumption	~	8	♡ #		SEM2015 02	_	7 ^			WOLK Shop		WOLK Sh		
	Phase 2 Channel								7 0							
	FIIdSE Z CIIdIIIIEI								8 🗘							

5. Web User Interface (Web UI SEM-2015 Only)

The SEM-2015 includes a web-based user interface (web UI) with additional programming and configuration options, some of which are required for successful deployment. To access and configure the Web UI, follow the steps listed below from the Savant Development Environment (SDE/MacBook) while connected to the same local network as the SEM-2015.

- Locate the IP address for the SEM-2015 via System Monitor, or using any network scanning utility.
- 2. Open a web browser and enter the device IP into the address bar.

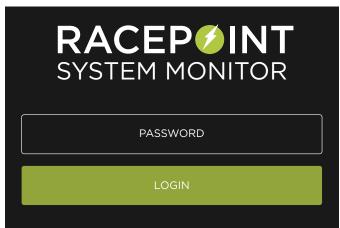


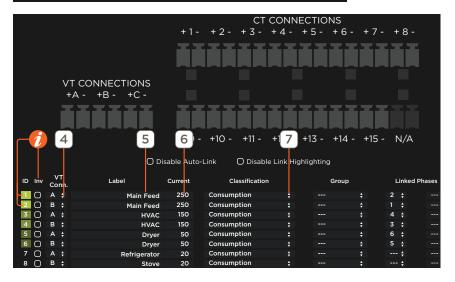
IMPORTANT NOTES:

- The first time connecting to the SEM-2015 the user is required to set a password.
- If the password needs to be reset, follow the Device Reset instructions found in the Standalone Energy Monitor (SEM-2015)
 Quick Reference Guide.
- 3. Enter device password (or set password if accessing for first time), then select **LOGIN** to continue.
- 4. Select the Voltage Transformer Connection.
- 5. Enter a label for the current transformer.
- 6. Enter the current rating of the current transformer.
- 7. Select the circuits Classification.
- 8. Repeat steps 4 though 7 for each current transformer in use.
- 9. Click Deploy Config.



Inv (Invert)	If a current transformer reports a negative current value (potentially wired backward), check this option to multiply reported value by -1, making it positive.
Linked Phases	Combines readings from multiple current transformers when a circuit utilizes more than 1 phase.
Auto-Link	Links circuits with matching labels. To disable this feature, check Disable Auto-Link .
Link Highlighting	Shows matching green squares on linked current transformers. This feature can be disabled by checking the box labeled Disable Link Highlighting .





Appendix A: Accessories

SKU	Description	Image
SEM-VT01	SEM-VT01 is a Voltage sensor, for use in conjunction with Savant Energy Monitors.	7
SEM-020A5	SEM-020A5 is a 5 pack of 20 Amp, split-core, clip-on current transformers.	
SEM-050A5	SEM-050A5 is a 5 pack of 50 Amp, split-core, clip-on current transformers.	
SEM-150A1	SEM-150A1 is a 150 Amp, split-core, clip-on current transformer.	18
SEM-150A5	SEM-150A5 is a 5 pack of 150 Amp, split-core, clip-on current transformers.	18

SKU	Description	Image
SEM-250A1	SEM-250A1 is a 250 Amp, split-core, clip-on current transformer.	250A SELF CONE CF CRAFT CONE CF C
SEM-400A1	SEM-400A1 is a 400 Amp, split-core, clip-on current transformer.	MALI CORE CIT CITED AND AND AND AND AND AND AND AND AND AN
SEM-600A1	SEM-600A1 is a 600 Amp, split-core, clip-on current transformer.	BPLIF CORN CT CTREST AGAINATED TO THE CORN

Appendix B: Energy Monitor Data Table Index

Enabled Circuit	Description	Classification	Image	Group Image	Group	Monitoring Device	Channel	Size	Voltage Source	Parent Circuit	Control	Savant Zone	Production	Туре	
+ -													?	Import	Export
Enabled			dicates wavant UI.	hether or n	ot the row is ena	bled. If the rov	v is und	chec	ked, that ro	w will not	gene	rate a con	trol inte	Cancel erface w	Done vithin the
Circuit Description					f the physical wir	_					are a	ttached.			
		Pł	A circuit must consist of at least one phase channel, and may contain up to three. Phase channels can be added or removed by only selecting a phase channel within the circuit and pressing "+" or "-" located the bottom left corner of the dialog. New circuits will have one phase added automatically.												
Classification	on		Consumption: A circuit that consumes power, which is the most typical kind of circuit. Production: Used for any circuits that add power to monitored system.												
Classification		Feed: Designates that this circuit is the Main Power input from the utility company.													
lmage		Sc		Garage, HV	the Savant App f 'AC, Dish Washer										
Group Imaç	ge				e grouping of Cinnine, None, Light								r, Pool G	arage,	HVAC, Dis
Group			The group in which the circuit is listed within the Savant App. Select a predefined group (same list) or select the text field to enter a custom group name. Configured groups form the top level navigation options presented to the user.												
Monitoring	Device	Tł	The specific physical monitoring device, such as Energy and Resource Monitor that is connected to the circuit.												
Channel		Tł	The physical port on the energy-monitoring device to which the current transformer for that circuit is connected.												
Size			The capacity of the current transformers used for the circuit. This capacity must exactly match the 20A, 50A, 150A or other supported CT size physically clamped onto that circuit.							or other					
Voltage Source	Tł	The available voltage monitoring sources corresponding to phase channels of the circuit.													
	m	NOTE: For the best and most accurate monitoring results, ensure that the voltage of each phase channel is accurately measured as close to the trunk as possible, and that every circuit phase channel is correctly matched to its corresponding voltage sensor.													
		External Voltage Transformer sensors will provide more accurate voltage and power reporting, but must be physically connected to the correct phase and each phase channel must have the correct voltage sensor selected here.									ly				
Parent Circ	u iit		se this cat ot double	tegory whe	n using a current	transformer o	n the N	1ain	Power Fee	d, so that	the en	ergy read	ing fron	n this d	evice doe

	IMPORTANT! TrueControl II is no longer supported.
Control (TrueControl II only)	For circuits that have Savant-controllable resources, select Choose to be presented with a Service or Zone selector. Convenient links will be presented within Savant's end-user Energy Monitoring UI to control these resources and impact energy utilization.
Savant Zone	The zone within the Savant App the circuit is visible.
Production Type	The type of power source for entries with the Production classification. Options include Generator, Solar, or Battery.
+	- If a circuit level row is selected or there is no selection, add a new circuit.
	- If a phase channel is selected, add a new phase (up to 3).
-	Remove a selected phase channel or circuit per selection.
Import	Imports a copy of the energy monitor table configuration that has previously been exported with the Export option. This function is useful for backing up before making changes, or it can be used for template management in installations that are very similar.
Export	Saves a copy of the Energy Monitor data table configuration for use with the Import function described above.
Cancel	Clears changes and closes the window.
Done	Saves changes and closes the window.

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