Energy Monitoring

Homeowners and businesses can view how much energy is being used and where. View by time of day, load, circuit or group of circuits, make adjustments and control energy costs.

TECH SPECS

Savant Stand Alone Energy Monitor (SEM)

ENVIRONMENTAL

Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 90% Relative Humidity (non-condensing)

DIMENSIONS AND WEIGHTS

Height	9.5 in (24.13 cm)
Width	9.7 in (24.64 cm)
Depth	3.3 in (8.38 cm)
Weight	Shipping: 2.65 lb (1.2 kg)

POWER

Input Power	5V DC
Nominal Power	3W (10W max)

REGULATORY

Safety and Emissions	FCC Part 15B, CE Mark, C-Tick
RoHS	Compliant

MINIMUM SUPPORTED RELEASE

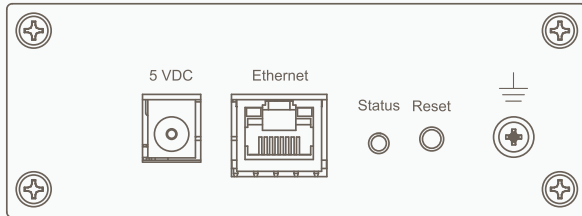|	
Savant OS	da Vinci 9.1

DESCRIPTION

The Savant Energy Monitor is an Ethernet-based power metering control unit designed to log a home's electricity usage and production. By attaching to the incoming electrical service and branch circuits, it can measure and track energy consumption in real time.

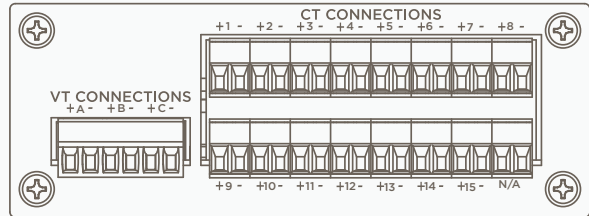# Savant Stand Alone Energy Monitor (SEM)

LEFT SIDE PANEL

5 VDC	Power Input - Connect the supplied power adapter between the 5V DC port and a surge protected (120-240V AC, 50/60 Hz) outlet.
Ethernet	8-Pin RJ 45 port. 10/100/1000 BaseT auto-negotiating port with link activity LEDs
Status	**Blinking Red** - Embedded firmware is running but has not received an IP Address. **Solid Green** - Connected to the local network and communicating with the Savant System Host.
Reset	Device Reset: 1. D1isconnect power. 2. Reconnect power wile holding the reset button for 20 seconds. Device will reboot clearing its configuration and resetting its password.
Ground	Chasis Ground (optional)

ACCESSORIES (sold seperately)

SEM-VT01 - SmartEnergy Voltage Sensor

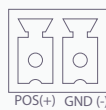Split Core Current Transformers (Clamp-on) with 8ft leads.

- SEM-020A5 20 Amps 5 Pack
- SEM-050A5 50 Amps 5 Pack
- SEM-150A1 150 Amps 1 Pack
- SEM-150A5 150 Amps 5 Pack
- SEM-250A1 250 Amps 1 Pack
- SEM-400A1 400 Amps 1 Pack
- SEM-600A1 600 Amps 1 Pack

RIGHT SIDE PANEL

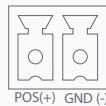|	
VT Connections	**Voltage Transformer** - (3) Voltage sensor input ports. Input port for the SEM-VT01 voltage sensor.
CT Connections	**Current Transformer** - (15) Input ports for each Current Transformer installed in the system.

CURRENT/VOLTAGE TRANSFORMER INPUT POLARITY

Current Transformer Input

POS (+) - White or red wire from Current Transformer

GND (-) - Black wire from Current Transformer

Volatge Transformer Input

POS (+) - Connect to the positive (+) output on Voltage Sensor. See diagram in the Install Voltage Sensors section.

GND (-) - Connect to the GND output of a Voltage Sensor (SEM-2015). See diagram in Install Voltage Sensors.