



SylSmart
Energy

Quick Start Guide

Auditor 6M Models



Version 1.0 April 2022

SYLVANIA

Auditor 6M



Complete these four easy steps,
and start monitoring your site.

1. Prep before you begin
2. Connect your Auditor
3. Use the onboarding tool
4. Validate that your installation is correct

1. Prep before you begin

Ensure you have the equipment - You'll need an internet connected smart device (e.g. smartphone, tablet, laptop) to configure the Auditor and capture information about the installation. Masking tape and marker are useful for marking Current Transformers and cables during installation. You'll need a clamp meter for checking current measurements.

Check - That you have 35mm wide space available on the DIN rail. If there is not space, additional DIN rails may be mounted in the cabinet or an external enclosure used. Ensure that Current Transformer can accommodate the cable size (i.e. cable diameter fits within CT opening width).

Ensure there is a way to isolate the Auditor voltage inputs - An existing or new circuit breaker can be used depending on the regulations in your jurisdiction. A breaker is not included in the Auditor package.

2. Connect your Auditor



Single-Phase Voltage Connections

Use this configuration when measuring single-phase devices which are all on the same phase.

The voltage connections are labelled P1, P2, P3, N.

Connect P1, P2 & P3 to the same phase.

Connect neutral to N.

Use single-phase wiring tails if they were provided with your Auditor.

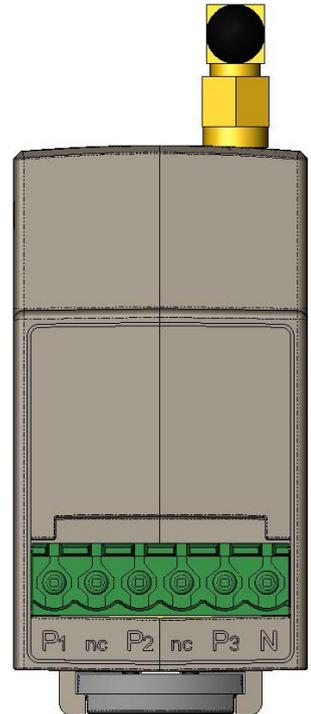
Three-Phase Voltage Connections

Use this configuration when measuring devices on multiple phases.

The voltage connections are labelled P1, P2, P3, N.

Connect all three voltage phases to P1, P2, P3, even if all the loads are single phase. Connect neutral to N.

Use three-phase wiring tails if they were provided with your Auditor.



2. Connect your Auditor Continued

Current Transformer Connections

Install Current Transformers (CTs) such that:

- For grid monitoring: arrow is from grid
- For solar monitoring: arrow is from inverter
- For load monitoring: arrow is towards the load

Three-channel Auditor (3M)

The CT connections are labelled 3+, 3-, 2+, 2-, 1+, 1-

Connect the CT pink wires to terminals marked 1+, 2+, 3+

Connect the CT white wires to terminals marked 1-, 2-, 3-

It is acceptable to use less than three CTs.

Place CT connected to...	On cables connected to...
1+ 1-	P1
2+ 2-	P2
3+ 3-	P3



2. Connect your Auditor Continued



Six-channel Auditor (6M)

The CT connections are labelled: \equiv , 6+, 5+, 4+, \equiv , 3+, 2+, 1+

The white wires connect to terminals labelled " \equiv "

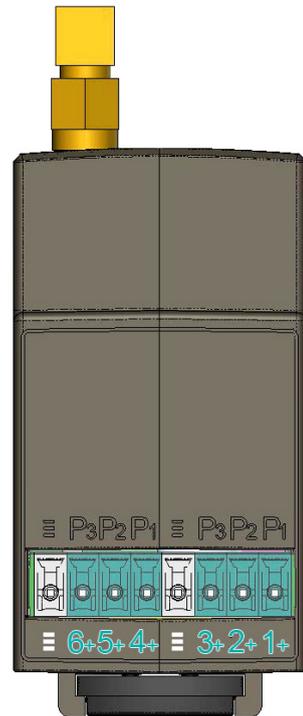
- three wires in each terminal

The pink wires connect to the terminals labelled "+"

The CTs and Voltage phases must match as stated below.

Place CT connected to...	On cables connected to...
1+ and 4+	P1
2+ and 5+	P2
3+ and 6+	P3

It is acceptable to use less than six CT's.





3. Use the onboarding tool

The onboarding tool at onboarding.wattwatchers.com.au collects the installation details for each site including device serial number, circuit names and CT size. Log into the onboarding tool and work through the steps to configure your devices for the installation site.





14°

16:02

Sunday

13th February 2022

Current Demand



Last 24 Hours

ELECTRICITY



FEB

2022



23%

UNDER BUDGET



37%

UNDER BUDGET

last 24 hours

SUNDAY



14°

Humidity: 55%

Wind speed: 19mph

FEELS LIKE 12°

Mon		9°
Tue		7°
Wed		11°
Thu		11°
Fri		9°
Sat		7°

4. Validate installation

Check the lights

All three green lights on the front of the Auditor should be lit solid. The table below helps to understand the meaning of the lights.

Auditor6M Indicators

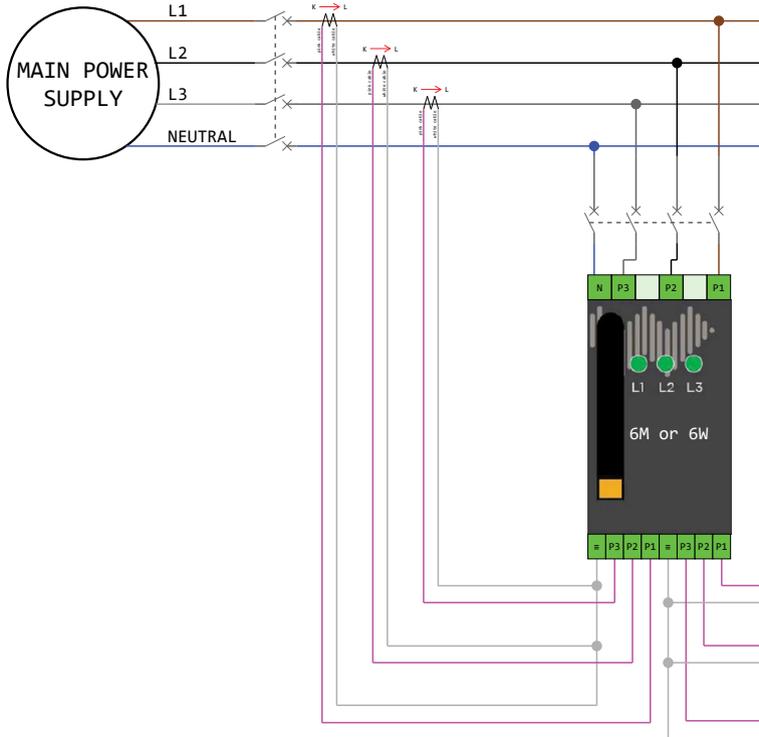
L1	L2	L3	Explanation
Off	Off	Off	Powered off
Blinking	Off	Off	Powering on
Solid	Off	Off	Powered on - connecting to mobile network
Solid	Blinking	Off	Searching for SIM
Solid	Solid	Off	SIM found
Solid	Solid	Blinking	Waiting for servers
Solid	Solid	Solid	Connection complete

4. Validate installation Continued



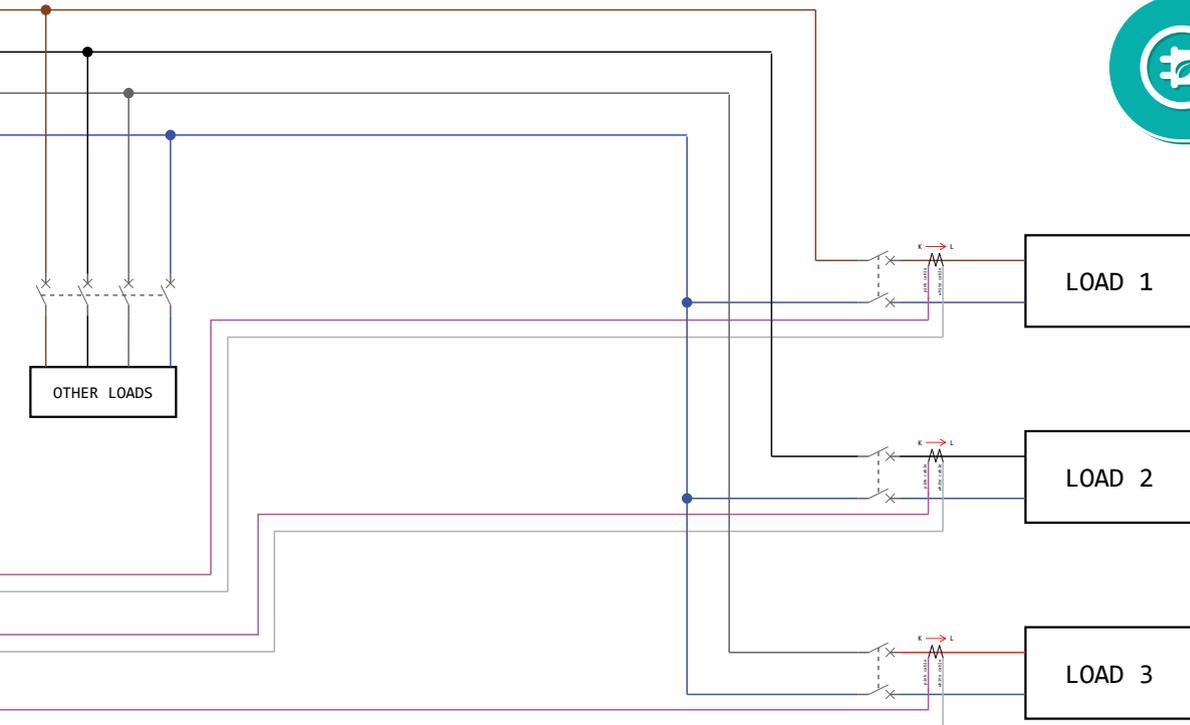
Validating that your installation is correct

If...	Then...	Otherwise...
Circuit current rating is less than the CT rating	The correct size CTs is installed.	Use a larger CT.
Install data shows three voltages around 240V, less than 265V	The voltage connections are good.	Check the voltage connections to P1, P2, P3 are three phases.
Solar inverter circuits (3) have equal current and PF=1	Solar CTs are installed correctly.	Check CT wiring, phase and orientation.
With the solar inverter turned off, PF is +ve and expected value on all circuits	Grid and load CTs are installed correctly.	Ensure CT phase and orientation are correct. CTs on the wrong phase may cause negative PF readings. Where there is solar operating, Grid circuits show -ve PF if there is "feed in".
Current measured with tongs meter is the same as current reported in the data	The Auditor is configured correctly.	Use onboarding tools to change the CT to the correct size
Default phase allocation is ok for this installation	Multiple single phase loads are being monitored.	Email support with pairing channel and phase eg. CH1/P1



Auditor 6 Wiring Diagram

Supply	3 phases
Loads	None
Solar	3 phases



Place CT connected to...	On cables connected to...
1+ and 4+	P1
2+ and 5+	P2
3+ and 6+	P3



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Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Current details should therefore be checked with Feilo Sylvania International Group Kft.

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