



SylSmart
Energy

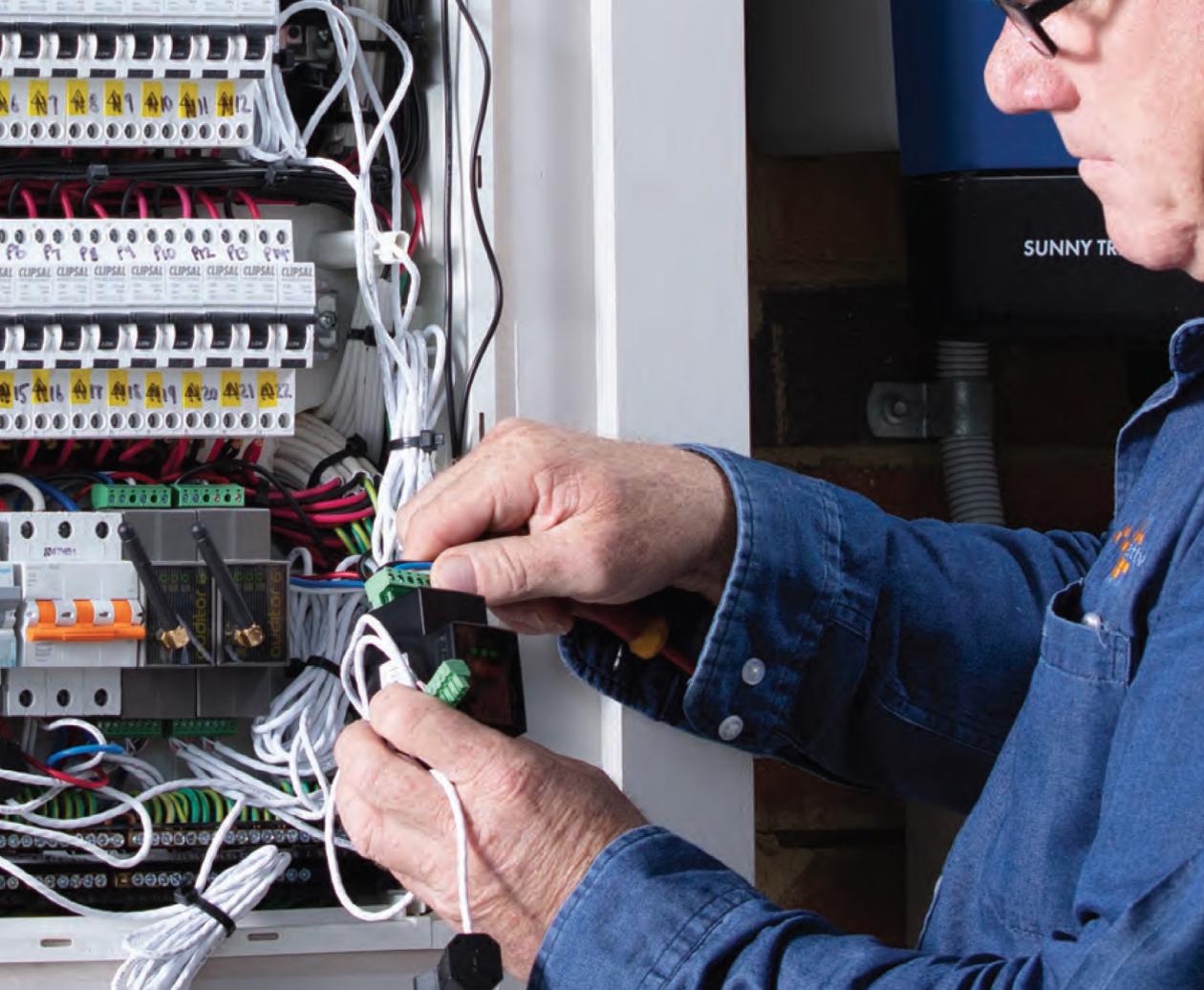
Quick Start Guide

Auditor 6W Models
(WiFi, monitoring-only)



Version 1.0 April 2022

SYLVANIA



Auditor 6W



Complete these five easy steps,
then start monitoring your site.

1. Before you begin
2. Connect your Auditor
3. Configure your WiFi settings
4. Use the onboarding tool
5. Validate that your installation is correct

ATTENTION: Must be installed by a licensed electrician in accordance with standard electrical safety regulations in your jurisdiction.

1. Before you begin

Ensure you have the equipment - See Auditor 6W checklist below. You'll need an internet-connected smart device (e.g. smartphone, tablet, laptop) to configure the Auditor and capture information about the installation. A marker is useful for numbering 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.

WiFi network details & signal - Ensure that you have the WiFi network name and password on hand. With your smartphone or tablet ensure that there is a WiFi signal at the installation site. If there is no reception you'll need a WiFi range extender. Once the Auditor is installed you'll be able to check for adequate signal strength.

Auditor 6W hardware checklist:

- Monitoring device - 2-unit wide DIN-mount
- CTs - supplied in sets of 3 (one or two sets)
- Wiring tails - single-phase, 3-phase or both
- Connectors - green-coloured plastic plugs.

2. Connect your Auditor



Single-Phase Voltage Connections

Use this configuration when one phase is present.

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.

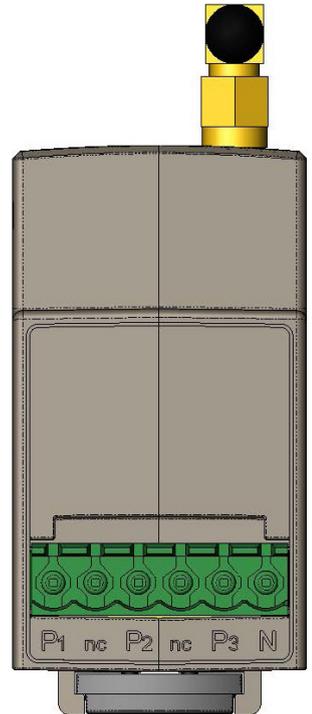
Three-Phase Voltage Connections

Use this configuration when there are multiple phases present.

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

Connect voltage phases to P1, P2, and P3. Connect neutral to N.

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



2. Connect your Auditor Continued

Current Transformer Direction

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.

About the split-core CTs:

- Only Wattwatchers-supplied CTs are supported
- All CTs can be interchanged in the field (in sets of 3)
- Different-sized CTs can be used on one device, in sets of three eg. channels 1-3, 60 Amps; channels 4-6, 400 Amps
- CT sizes can be changed using the onboarding tool in step 3
- Directional arrows for CT placement are imprinted on the CTs.

CT sizes and opening aperture widths

| Size (amps) | Opening Width (mm) |
|-------------|--------------------|
| 60 | 10 |
| 120 | 16 |
| 200 | 22 |
| 400 | 25 |
| 600 | 36 |



2. Connect your Auditor Continued



CT Connections (6M)

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

The white wires connect to terminals labelled " \equiv "

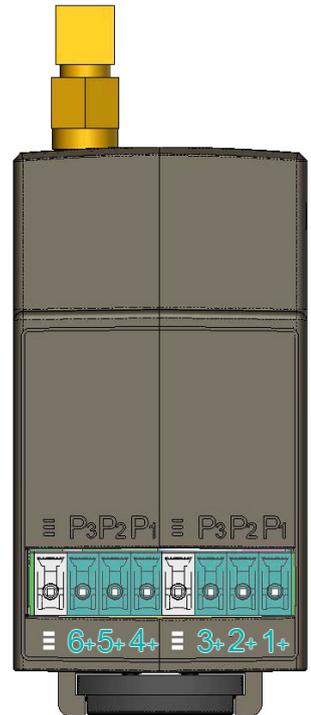
- three wires in each terminal

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 (minimum of one).



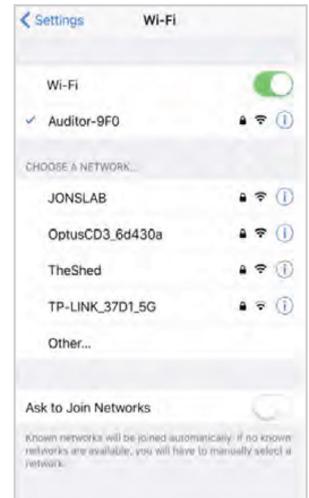
3. WiFi settings

Configure your WiFi settings

To communicate over the internet using the site WiFi, the network name and password is required. This allows the Auditor to send and receive data over the site owner's internet link.

Any smartphone, tablet or computer can be used for this process.

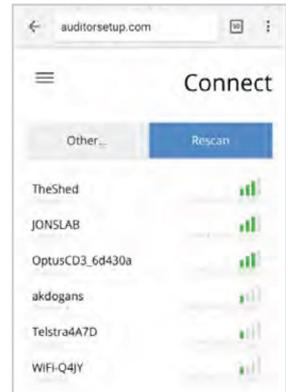
1. Check you can access the site WiFi network from the meter box using a smart device.
2. The Auditor should be on and all 3 LED lights flashing.
3. Using your smart device's WiFi connection setup, connect to the Auditor network which will show up as Auditor-xxx (where xxx is a unique number).
4. The passcode to connect to the Auditor network is myenergy (no upper case characters).
5. Whilst connected to the Auditor's network, open a web browser and navigate to auditorsetup.com
Ensure that **"Private Wi-Fi Address"** and **"Limit IP Address Tracking"** are switched off



3. WiFi settings Continued

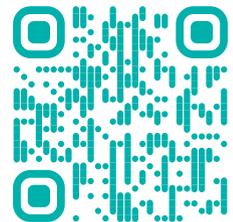


6. The screen will then display the available site networks. Select the site network and connect.
7. Enter the password for the site WiFi network. Enter and press connect.
8. Once connection starts, the Auditor LED lights will flash whilst it establishes a connection.
9. A successful connection to the site WiFi will be shown when all LED lights go solid green (no flashing). If this step fails the WiFi network signal may be too weak.



4. 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.



4. Validate installation

Check the lights

When installation is completed successfully, all three green lights on the front of the Auditor should be lit solid. The table below shows the meaning of the lights.

Auditor 6W Indicators

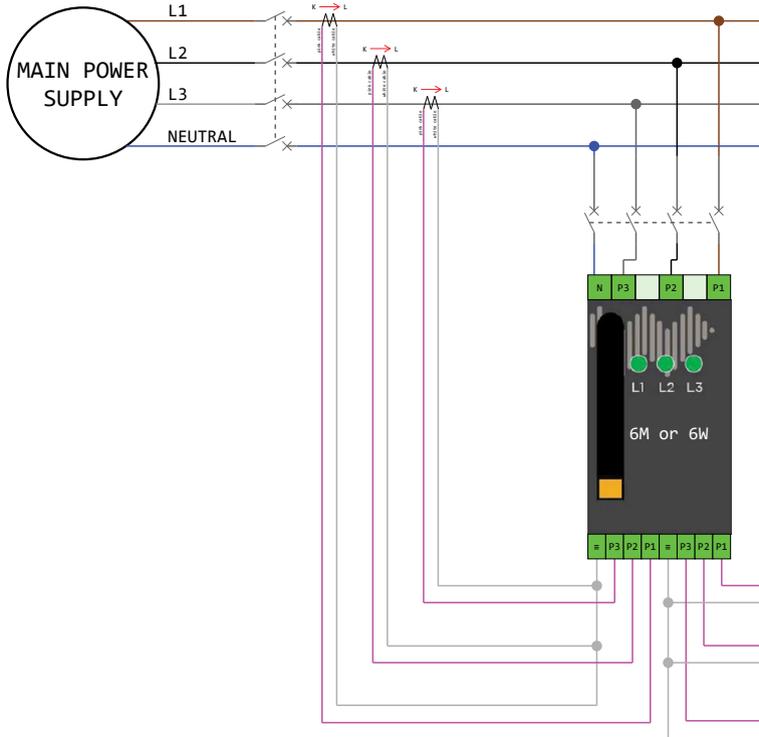
| L1 (Mode) | L2 (Network) | L3 (Internet) | Explanation |
|----------------|--------------|---------------|--|
| Off | Off | Off | Powered off |
| Blink | Off | Off | No WiFi network. Code started. |
| Blink | Blink | Off | Found WiFi |
| Blink | On | Off | DHCP complete |
| On | On | Off | Connected, Time |
| On | On | On | Normal Operation: Connected, Logging. |
| All Fast Blink | | | Configuration |

4. Validate installation Continued



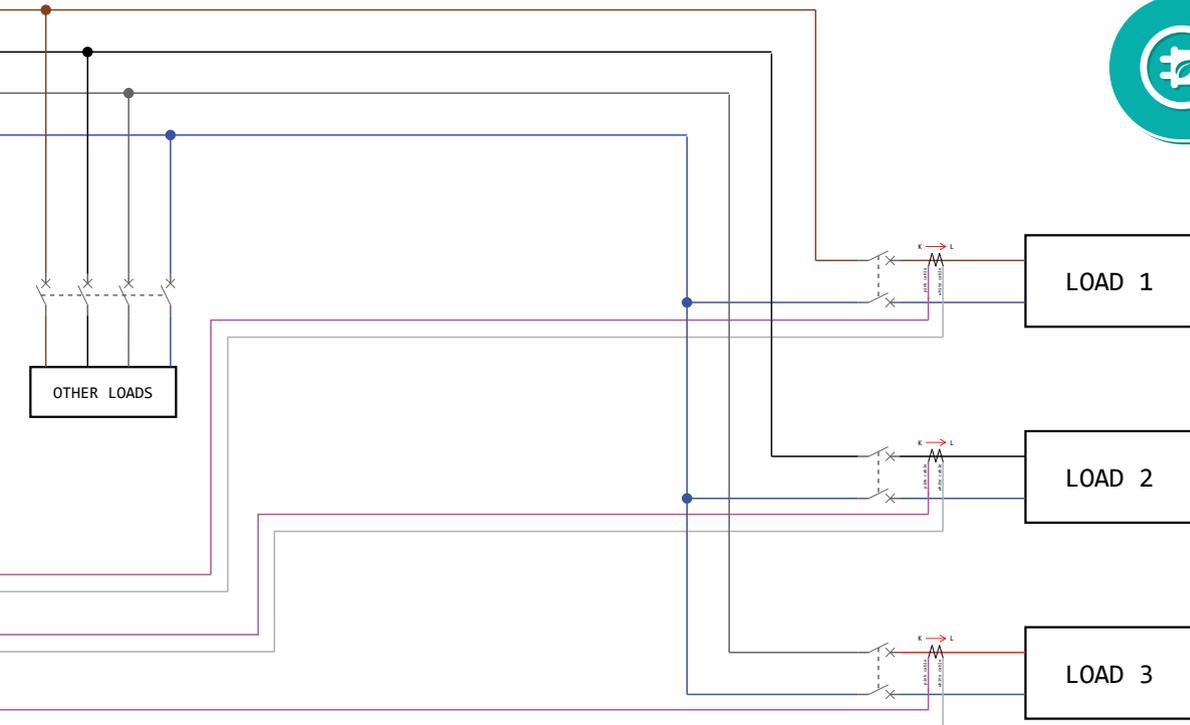
Validating that your installation is correct

| 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. |
| Three-phase solar inverter circuits that 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 |
| A CT is used to monitor one of multiple parallel conductors for a connection | Email Support with pairing channel , phase and CT size e.g. CT1/P1 400A. | |



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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