

Quick Start Guide



Auditor 6M+MB

(Cellular monitoring with Modbus)

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

- 1. Before you begin**
- 2. Connect power and Modbus**
- 3. Connect your CTs**
- 4. Use the onboarding tool**
- 5. Validate that your installation is correct**

Check here for latest documents:

www.wattwatchers.com.au/support

Part #WW018060

August 2020

1. Before you begin

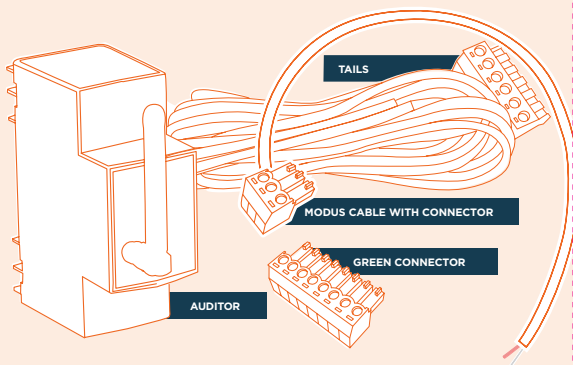
What's in the box:

1 x Auditor

Power connection tails

Green connector

Modbus cable with connector



- Do you have at least 35mm space in the DIN rail mount to fit the Auditor?
- Do you have 3G/4G signal inside the switch box?
- Do you have a smartphone or tablet with internet to configure the device?
- Do you have the necessary electrician tools to install including energy measurement clamp meters for testing?
- Have you ensured that the install complies with the electrical standards in your jurisdiction including an isolation circuit breaker either existing or new? No circuit breakers are included.

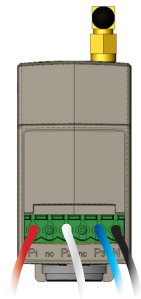
2. Connect power and Modbus

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 (Black) to N.

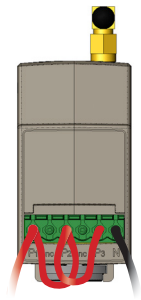


Single-Phase Voltage Connections

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.



Connect the Modbus cable

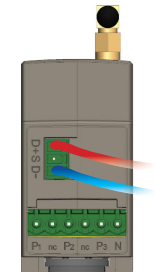
The Auditor operates as a Modbus master for devices where a driver has been developed.

Make Modbus connections:

D+ Connect to D+ on the slave device.

D- Connect to D- on the slave device.

S Connect to the shield (this is not required for short cable lengths).



3. Connect your CTs

Installation of Current Transformers

For monitoring:

| | |
|-------|--|
| Grid | The arrow must face away from the grid |
| Solar | The arrow must face towards the grid |
| Load | The arrow must face away from the grid |

Current Transformer Connections

Wattwatchers CT's are connected to the bottom of the Auditor. Only Wattwatchers CT's are supported.

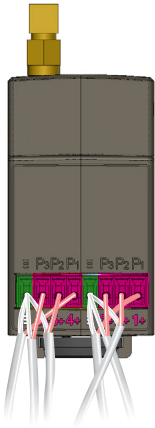
The CT connections are labelled:
≡, 6+, 5+, 4+, ≡, 3+, 2+, 1+

The white wires connect to terminals labelled “≡” three wires in each terminal.

The pink wires connect to the terminals labelled “+”

The CTs and Voltage phases must match as stated below.

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



It is acceptable to use less than six Current Transformers.
Find complete wiring diagrams at www.wattwatchers.com.au/support/wiring

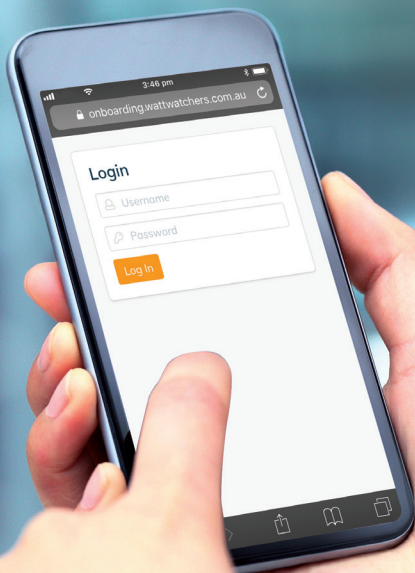
4. Use the onboarding tool

Use the onboarding tool at onboarding.wattwatchers.com.au to configure and setup your Auditor installation.

The onboarding setup tool provides a series of steps to capture details of your setup and provide real-time feedback on the success of the installation.

The onboarding setup tool **MUST** be used for each and every Auditor installation.

onboarding.wattwatchers.com.au



5. Validate Installation

Check the lights






















The lights on the face of the Auditor help to validate that the device is operating.

- L1, L2, L3 - Indicate the initialisation and communications status of the Auditor.
- MB - indicates the Modbus communications status.



The installation is completed successfully when all indicators are lit solid green:

- Indicators L1, L2 and L3.

The table below shows the meaning of lights.

| L1 | L2 | L3 | Explanation |
|--|--|--|---------------------|
|  |  |  | Powered off |
|  |  |  | Powering on |
|  |  |  | Powered on |
|  |  |  | Searching for SIM |
|  |  |  | SIM found |
|  |  |  | Waiting for servers |
|  |  |  | Connection complete |

Modbus Indicator (MB)

| | | |
|--------------|---|---|
| Green |  | Modbus connection is working. Blinks off briefly when there is activity |
| Flashing red |  | Not communicating - may mean cable not connected properly, slave powered off, or device not supported |

Support

Need help with your installation?

Our team is available from 09:00 to 17:00, Monday to Friday AEDT

Support phone: 02 8316 7540 (+61 2 8316 7540 from overseas)

Support: For additional materials and to lodge a Support ticket, please visit:

www.wattwatchers.com.au/support