wattwatchers
DIGITAL ENERGY

SAFETY INSTRUCTIONS FOR AUDITOR HARDWARE

You must read the all the safety instructions before installation of any Wattwatchers Auditor hardware device

Safety First

Please check Wattwatchers service page for the **latest version** of this safety instruction. These instructions are subject to change without notice and it is your responsibility to make sure you have the latest version.

For the latest version of the safety instructions, scan the QR code or go to the link below

https://service.wattwatchers.com.au/safety-manual

⚠ WARNING - MUST READ FIRST

This safety manual contains information and advice on how to avoid damaging the Auditor device, and how to avoid personal injury and even death!

Before installation, you must read both the safety guide and the Auditor's instruction manuals to ensure a safe and correct installation. After reading, store them in a safe place for future reference. Wattwatchers assumes no responsibility for any damage caused by mishandling the product or incorrect installation practices defined in the manuals and safety guides.

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PRODUCT OVERVIEW

Warning labels on device

The Auditor device has a warning symbol (see on the left) on the side of the Auditor device which indicates that the device may cause electric shock to a person if the device is opened which can result in personal injury or even death. The device's warranty will also be voided if the device is opened or tampered without written approval from Wattwatchers.

Intended use

- The Auditor is primarily designed to be installed in an electrical switchboard for energy monitoring in residential, commercial and industrial sites. Some models include inputs for Modbus connections and some have internal relays.
- The Auditor is not intended for mobile use, such as in vehicles.
- DO NOT use this product for any purpose other than intended, as per installation instructions and safety advice in this guide.

Additional Safety Requirements for Switching and Modbus models

A6M+One (CET PMC meters)
- Please ensure the use of test and short-circuit blocks with the billing current transformers (CTs) supplied for the CET PMC meters to prevent safety risks, including the potential for injury or death. It is crucial to thoroughly read the instruction manual and safety guide for the CET PMC meter before installation.
- Never connect a CT with a 5A output to the Auditor. 5A CTs are only designed for the CET PMC meters.
- WARNING: Billing CTs have a potential of 5 AMPS on the secondary side when connected. If exposed to the open terminal when the CT is operational, there is a risk of serious injury or death.

A6M+MB (Modbus inputs)
- Never connect line voltage to any Modbus inputs, these inputs are only designed for communication signals such as those from devices as described by the instruction manuals.

A6M+3SW
- The A6M+3SW comes with 3x internal relays for switching external contactors that are rated for 240VAC when an external voltage source is connected. Make sure all power is isolated and not energised to any cable that is connected to the Auditors internal switching relays when installing or working on the Auditor.
- Take caution when installing or working on any external contactors, and isolate all power to any external contactor and control coil source when working with the Auditor.

Installation Recommendations

For proper installation and compliance with local regulations, the Auditor device must be installed by a licensed electrician or an individual with equivalent qualifications as required by the laws of the state or country.

The installer must possess comprehensive knowledge of applicable standards and directives within the jurisdiction where the device is being installed. Additionally, avoid installing the device in a position accessible to children or animals.

The warranty will be void if the device is installed by someone who does not meet the minimum licensing requirements for electrical device installation. The installer must adhere to this safety guide, as well as the rules, regulations, and laws of the state/country where the device is being installed. Failure to comply with this safety guide will also void the warranty.

Potential risks to be aware of

- There is a risk of electric shock if the system is installed or serviced without first disconnecting the electrical supply. Please ensure the main electrical supply to the device and any circuits being monitored by connected CTs is switched off before initiating any installation or servicing procedures.

- Treat all open-ended CTs on the primary side of the cable as live and dangerous when the CT is connected to an energised circuit.

- Treat the screw connections on the plugs of the device's terminal voltage as live when the device is operational.

Operation Safety Instructions

- Read all instructions before installing or using the Auditor device.
- DO NOT make changes to the system, such as removing parts or fitting unapproved components.
- DO NOT use the product if it is damaged or shows any signs of tampering, damage, including visual smoke, burn marks, or exposure to water.
- DO NOT use damaged current transformers or cables.
- DO NOT immerse any parts of the device in water or any other liquid.
- DO NOT expose the product to heat, flame, extreme cold, or direct sunlight.
- Unauthorised or improper installation, tampering, replacement of components, cleaning, or operation will void warranty and may damage the system, impair functionality, and put individuals at risk.
- Install and operate the equipment only as specified by Wattwatchers.
- For any 3rd party products that are supplied by Wattwatchers, you must install, operate and maintain the parts as specified by the manufacturer and follow the manufacturer's safety instructions.

Termination requirements

- The Auditor is rated for 100–265V single phase, and up to 415V when installed in a multi-phase environment. The device draws a maximum of 0.25A.
- It is recommended the device be supplied with an all-pole overcurrent protection device.
- When terminating the device using the voltage leads provided by Wattwatchers, ensure that you use an all-pole overcurrent protection device rated at 10A or lower.
- If you are NOT utilising the pre-terminated voltage leads and instead powering the device using other cables, the protection device can be protected up to a maximum of 16A. It is essential to comply with the local jurisdictional rules and regulations of your state/country.

Installation Safety Instructions

- Do not install the device when live power is present on the board in which the device is being installed.
- Do not install CTs when current is flowing in the sensed circuit.
- Exercise caution regarding arc flashing when working on an Auditor device connected to three-phase power. Please take all necessary steps to isolate and test power before working on the device.

Installation Safety Instructions (Cont.)

- It is essential to make sure the live terminals of the Auditor are not exposed upon completing the installation. Ensure covers or escutcheon plates are installed inside to cover the terminals.
- The device must not be installed in an environment with temperatures that exceed -10C to +55C
- Please note that the Auditor has an IP rating of IP50 (front display) when installed in a switchboard. If installed outdoors, it must be placed in an external weatherproof enclosure that has the same IP rating or higher.
- The Auditor is not intended for mobile use, such as in vehicles.
- It is best practice to install, change, and/or alter any CT with a CT shorting block.
- Check all electrical connections thoroughly after completing the installation.
- Ensure cables are installed correctly and connections are made properly.
- The device features two clips on the back for securing it to a DIN rail. To operate the clips, push them firmly outwards on both ends, mount the device on a DIN rail, then firmly push the clips in towards the device until you hear a click, indicating that the device is securely attached to the DIN rail. To remove the device, carefully unclip the clips using a flat-head screwdriver.

Site and Environment

To prevent hazards arising from the installation site and environment, observe the following rules.

Ensure the installation location meets the operating conditions requirements:
- Working temperatures must not exceed below 0°C or above 50°C (32°F–122°F).
- The atmosphere must not be toxic or potentially explosive.
- The floor must be dry to reduce the risk of accidents.
- Sufficient airflow must be available.
- Avoid direct sunlight on the device; if unavoidable, use adequate shading.
- Maintain a minimum space of 100mm on the top and bottom of the Auditor.
- Avoid locations in close proximity to other building services.
- DO NOT mount the device on flammable construction materials or in areas with highly-flammable materials.

You must always make sure you are aware of the environment you are working in and any potential hazards that may arise outside of this safety manual.

Maintenance

Regular inspection of electrical connections and overall state of the device is recommended.

When performing any maintenance tasks, it is imperative to isolate all power to the device and the board on which you are working, including power supplied to any CTs or 3rd party products supplied by Wattwatchers.
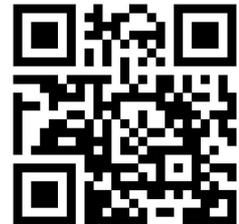
As with installation, any maintenance carried out must be carried out by a licensed electrician or an individual with equivalent qualifications as required by the laws of the state or country.

FIND OUR SERVICE PAGE

For all information regarding Wattwatchers software, hardware, and more, check out our service page by scanning the QR code or clicking the link.

https://service.wattwatchers.com.au

HOW TO CONTACT SUPPORT

Need help? You can lodge a support request by going to to the link below or by scanning the QR code. You can also send an email to support@wattwatchers.com.au

Support responds via email only
https://wattwatchers.com.au/support/submit-request