



PowerMonitor Accessory Kit

Catalog Number 1400-PM-ACC

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page
Added important information for wiring terminal blocks.	1

About the PowerMonitor Accessory Kit

IMPORTANT Pay particular attention to the labels of the terminal blocks and the dot polarity of the current transformer (CT) when wiring them to achieve correct polarity. The dot indicates the H1 and X1 terminals on the primary and secondary of the CT respectively. CTs with pigtail leads typically indicate the X1 (dotted) terminal with white wire and the X2 terminal with black wire. This convention runs counter to common wiring practices in industrial settings. The shorting block uses black terminals for the positive current connections. Wire CTs with pigtail leads according to the labels on the terminals and not necessarily the color of the terminals.

The PowerMonitor™ accessory kit simplifies the installation of a PowerMonitor unit (PowerMonitor 500, PowerMonitor 1000, or PowerMonitor 5000 units) by making all mandatory installation accessories available in one catalog number.

All applications require the installation of current transformers for proper power and energy. Proper current transformer selection is required, based on customer application. For technical support, visit rok.auto/support.



ATTENTION: Only qualified personnel, following accepted safety procedures, can install, wire, and service the power monitor and its associated components. Before beginning any work, disconnect all sources of power and verify that they are de-energized and locked out. Failure to follow these instructions can result in personal injury or death, property damage, or economic loss.



ATTENTION: Never open a CT secondary circuit with primary current applied. Include a shorting terminal block in the CT secondary circuit when wiring between the CT's and the power monitor. A shorting block, line fuses, and control power fuses are included in the power monitor accessory kit, catalog number 1400-PM-ACC. Shorting the secondary with primary current present allows other connections to be removed if needed. An open CT secondary with primary current applied produces a hazardous voltage, which can lead to personal injury, death, property damage, or economic loss.

IMPORTANT The power monitor is not designed for, or intended for, use as a circuit protective device. Do not use this equipment in place of a motor overload relay or circuit protective relay.

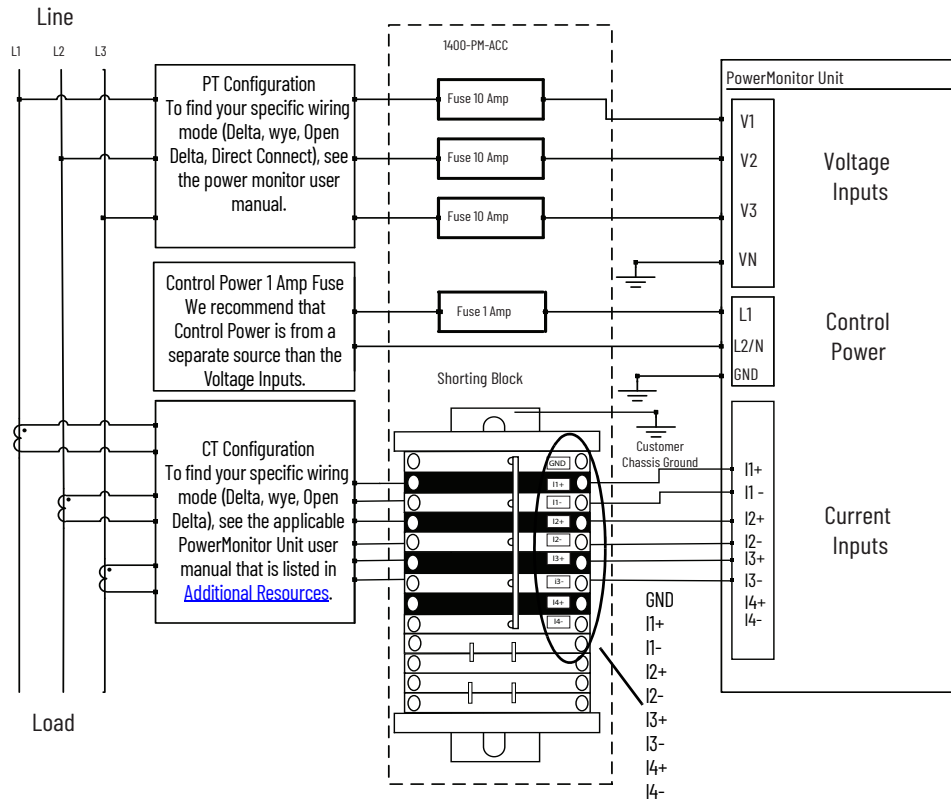
Include a shorting terminal block in the CT secondary circuit when wiring CTs and the power monitor. The shorting terminal block serves as an intermediary connection point where wiring modifications can be safely made.

The shorting terminal block has a modified factory-installed 9-pole jumper that connects the white terminal blocks (neutral CT connections) to the ground terminal block.

To modify the wiring of the power monitor side of the shorting block safely, when the primary conductor is energized, the positive leads of the CTs (black terminal blocks) must be shorted to ground. Never open a secondary winding of a CT if the primary conductor is energized.

1. To short the CTs, remove the 2-pole jumpers from the gray terminal blocks and insert them into the positive and neutral terminal blocks for each CT connection (for example, I1+ and I1- for line 1 current).
2. Once the CTs are properly shorted, wiring modifications can be made to the power monitor side of the shorting block.
3. After the intended wiring changes have been made, remove the 2-pole jumpers from the CT connections and reinsert them into the gray terminal blocks for storage. For replacement 2-pole jumpers, use catalog number 1492-CJP4-2.

Based on specific customer application, additional potential transformers can be required. See [Additional Resources on page 2](#).



Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
PowerMonitor 5000 Unit user manual, publication 1426-UM001	Provides installation instructions, wiring diagrams, configuration, and specifications for PowerMonitor 5000 units.
PowerMonitor 1000 Unit user manual, publication 1408-UM002	Provides installation instructions, wiring diagrams, configuration, and specifications for PowerMonitor 1000 units with catalog numbers 1408-BC3A-485, 1408-BC3A-ENT, 1408-TS3A-485, 1408-TS3A-ENT, 1408-EM3A-485, 1408-EM3A-ENT.
PowerMonitor 500 Unit user manual, publication 1420-UM001	Provides installation instructions, wiring diagrams, configuration, and specifications for PowerMonitor 500 units.
Product Certifications website, rok.auto/certifications	Rockwell Automation maintains current declarations of conformity, certificates, and other certification documents on its website.

Waste Electrical and Electronic Equipment (WEEE)







At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at rok.auto/docfeedback.

For technical support, visit rok.auto/support.

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