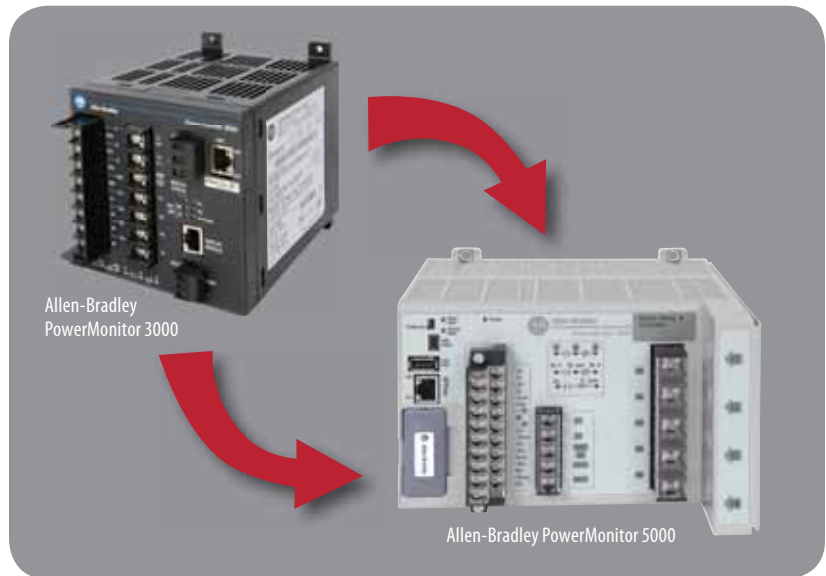


Why Migrate?

- Increased accuracy to 0.2%, the highest rating available
- Patent-pending system event snapshot tool provides you insight to the effects of an event on your system
- CIP energy-enabled meter allows easier integration to your energy network
- Integrated Current Transformers (CTs) improve accuracy, while improving safety by eliminating the need to land the secondary current input on the device
- Virtual wiring correction feature helps eliminate time, risks and costs associated with addressing wiring errors during initial commissioning
- Web-based configuration helps simplify installation and accessibility
- Dual power (AC/DC) capabilities
- Additional communication port allows for future expandability
- Expanded I/O
- Expanded metering capabilities including:
 - Single-cycle metering (measuring every cycle)
 - Flicker (voltage fluctuations)
 - Harmonics up to 127th
 - Fast transient detection
 - Sub-cycle harmonics
- Lifecycle Extension & Migrations offers tools and support to identify and mitigate your production risk



The Allen-Bradley PowerMonitor 3000 power meter has been a key product offering in the industrial energy management market for more than 10 years. The product has achieved the goal of being a premier power quality meter, but new technology and applications have come to the market over that time. With your needs in mind, we have chosen to replace the PowerMonitor 3000 with a new state-of-the-art PowerMonitor 5000 meter.

The PowerMonitor 5000 is the next generation of high-end, power quality metering product from Rockwell Automation. This power meter leverages new technology and capabilities to capture comprehensive data about your energy network. With your goals in mind, Rockwell Automation has developed a migration strategy that will allow you to quickly and easily migrate to the PowerMonitor 5000.

Step 1: Document Your Current PowerMonitor 3000 Configuration and System Setup

Begin planning your migration by documenting your existing PowerMonitor 3000 configuration parameters as a reference point. This will help speed up the initial setup and configuration of the new PowerMonitor 5000 power meter. Key parameters to document are CT ratios, PT ratios, wiring mode, demand period, relay configurations, status input scaling and network communication information.

Tools: You can access configuration values of the PowerMonitor 3000 through the PowerMonitor web page if Ethernet communications are available. If the PowerMonitor has a communication protocol other than Ethernet, you can use the 1404-DM (display module) to read the configuration data.

Step 2: System Application Planning

The data tables in the PowerMonitor 3000 do not match the data tables in the PowerMonitor 5000. Analyze your system and identify all products and/or software applications that read and write to the currently installed PowerMonitor 3000. Document all tags/data table files that are being read/written. You will need to update these products or software applications with the new tag/data table file after you have installed the PowerMonitor 5000.

Step 3: Plan Your Migration

After you have your current system setup and configuration documented, it is time to begin the physical migration from the PowerMonitor 3000 to the PowerMonitor 5000. The PowerMonitor 3000 has a voltage input rating of 600V_{L-L} max, and current input terminals that are fed from a current transformer. You must never open the secondary of a current transformer while the load you are monitoring is energized. The best time to physically change over from a PowerMonitor 3000 to a PowerMonitor 5000 is during a plant shutdown. Work with your facilities department to schedule the physical change over.

Step 4: Replace the PowerMonitor 3000

Label all voltage and current labels with proper phase rotation and polarity before removing from the PowerMonitor 3000. If you have relay outputs and status input channels configured, also label these wires prior to removing them from the PowerMonitor 3000. Short the current transformer shorting block that is connected to the current input wires. Remove the PowerMonitor 3000 and install the PowerMonitor 5000. The PowerMonitor 3000 mounting-hole locations will not line up for the PowerMonitor 5000. Make sure you have a solid connection to earth ground on the mounting feet of the PowerMonitor 5000. This is the product's safety ground.

Tools: PowerMonitor 5000 User Manual (Publication 1426-UM001; includes all installation instructions)

Step 5: Replace the PowerMonitor 3000 Display Module (if applicable)

If you have a 1404-DM (PowerMonitor 3000 display module) installed, you will need to upgrade it to view data from the PowerMonitor 5000. The Power and Energy Management group has released a free application file for the PanelView™ Component Graphic Terminal 4-inch model (2711C-T4T). This file will read all standard power and energy values from the PowerMonitor 5000.

Tools: PanelView Component Installation Manual (Publication 2711C-IN001G-EN-P), PanelView Component application file (located in the Power and Energy Management Accelerator Toolkit)

FactoryTalk® EnergyMetrix

You must install FactoryTalk EnergyMetrix prior to the PowerMonitor 5000 implementation. You must create a PowerMonitor 5000 meter profile for every PowerMonitor 3000 you are replacing. Document the tags that are being logged on all PowerMonitor 3000 meters prior to deleting the meter from FactoryTalk EnergyMetrix. You must update all reports and alarms to pull data from the new PowerMonitor 5000 meters.

Tools: Document: Create a PowerMonitor 5000 meter to replace a PowerMonitor 3000 in FactoryTalk EnergyMetrix
Document: Migrating from RSEnergyMetrix® to FactoryTalk EnergyMetrix

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