Installation Instructions

PLC-5 VME Processor Battery

Catalog Number 1770-XYV

This document provides information about installing and replacing the battery in the PLC-V5 processor.

Before You Begin

The battery indicator (BATT) warns you when the battery is low. The indicator first lights when the processor has 10 days’ worth of battery back-up power remaining, regardless of whether the processor is powered or not.

ATTENTION Electrostatic discharge can degrade performance or damage the module.

The battery for your PLC-V5 processor requires special handling. Electrostatic discharge (ESD) can damage integrated circuits and semiconductors in the processor if you touch backplane connector pins. ESD can also damage the processor when you set configuration plugs and/or switches inside the module. Avoid electrostatic damage by observing the following precautions:

- Touch a grounded object to rid yourself of charge before handling the PLC-V5 processor.
- Do not touch the backplane connector or connector pins.
- When not in use, keep the processor in its static-shield bag.
Important User Information

Solid state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (Publication SGI-1.1 available from your local Rockwell Automation sales office or online at http://literature.rockwellautomation.com) describes some important differences between solid state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

| WARNING | Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss. |
| IMPORTANT | Identifies information that is critical for successful application and understanding of the product. |
| ATTENTION | Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard and recognize the consequences. |
| SHOCK HAZARD | Labels may be on or inside the equipment (for example, drive or motor) to alert people that dangerous voltage may be present. |
| BURN HAZARD | Labels may be on or inside the equipment (for example, drive or motor) to alert people that surfaces may reach dangerous temperatures. |
Install or Replace the Battery
To install or replace the 1770-XYV battery, follow these steps.

1. If you are installing a replacement battery, pull the battery-cover pins out to unlock the cover, and remove the cover.
2. Remove the depleted battery.
3. Insert the new or replacement battery according to polarity.
4. Place the cover over the installed battery, and push the pins in to lock.
5. Write the installation date on the battery cover.

Average 1770-XYV Battery Lifetime
The 1770-XYV battery contains 0.15 grams of lithium. Refer to the following table for details regarding the average lifetime of this battery.

<table>
<thead>
<tr>
<th>At this temperature</th>
<th>Lifetime with Battery Power Off 100%</th>
<th>Lifetime with Battery Power Off 50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 °C (140 °F)</td>
<td>40 days</td>
<td>125 days</td>
</tr>
<tr>
<td>25 °C (77 °F)</td>
<td>6 months</td>
<td>8 months</td>
</tr>
</tbody>
</table>
**Additional Resources**

These documents contain additional information concerning related Rockwell Automation products.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programmable Controllers Battery Reference, <a href="http://www.ab.com/programmablecontrol/batteries.html">http://www.ab.com/programmablecontrol/batteries.html</a></td>
<td>Provides Material Safety Data Sheets (MSDS) for individual replacement batteries.</td>
</tr>
</tbody>
</table>

You can view or download publications at [http://literature.rockwellautomation.com](http://literature.rockwellautomation.com). To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.

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**ATTENTION**

Do not substitute another battery for the 1770-XYV battery. Substituting another battery could result in an unsafe condition and cause the processors to not comply with hazardous location standards and regulations.