

Replacing the SNAP PAC R-Series Rechargeable Battery

Introduction

Opto 22 SNAP PAC R-series programmable automation controllers manufactured after July 1, 2007, have a rechargeable battery that receives charging current whenever the controller has power. The battery will retain data for up to three years with the power off.

Because the battery is rechargeable and has such a long data retention period, you should never have to change it. However, if you need to change the battery, this technical note provides instructions to do so.

This technical note applies to the following R-series PACs:

SNAP-PAC-R1	SNAP-PAC-R2
SNAP-PAC-R1-B	SNAP-PAC-R2-FM
SNAP-PAC-R1-FM	SNAP-PAC-R2-W
SNAP-PAC-R1-W	

The replacement battery is a Sanyo Lithium ML2430-CJ1 or equivalent.

For Help

If you have difficulty with the battery or the R-series PAC and cannot find the information you need in this document or in the *SNAP PAC R-Series Controllers User's Guide* (form #1595, available on our website), contact Opto 22 Product Support.

Phone:	800-TEK-OPTO (800-835-6786) 951-695-3080 (Hours are Monday through Friday, 7 a.m. to 5 p.m. Pacific Time)	<i>NOTE: Email messages and phone calls to Opto 22 Product Support are grouped together and answered in the order received.</i>
Fax:	951-695-3017	
Email:	support@opto22.com	
Opto 22 website:	www.opto22.com	

Replacing the Rechargeable Battery

You can replace the battery if necessary using a Sanyo Lithium ML2430-CJ1 battery or equivalent.

CAUTION: Replacing the rechargeable battery erases archived strategies, persistent variables, the autorun flag, and variables initialized on download. Before replacing the battery, make certain any strategy archived on the controller is also archived somewhere else (for example, a PC). After the battery is replaced, archive the strategies again to the controller. See the PAC Control User's Guide for more information and instructions.

Strategy, firmware, and configuration files stored to flash memory are not erased.

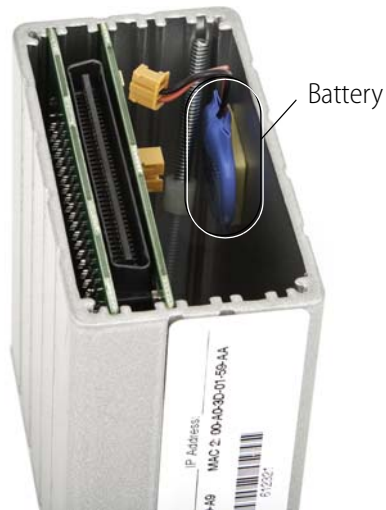
1. Turn off power to the controller. Remove the Ethernet cable(s) and the serial terminal, if used. Unscrew the center hold-down screw enough to remove the PAC from the mounting rack.
2. Turn the controller over. Unscrew the four small screws holding the bottom plate and save them. Remove the bottom plate.
3. Pull the boards out slightly so you can see where the battery is connected to the board.



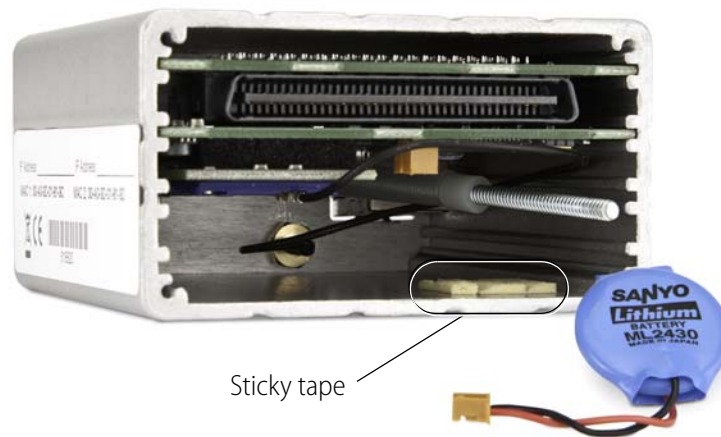
CAUTION: When working inside the can, make certain you do not damage the boards inside.

4. Carefully unplug the battery from the connector on the board.

You can see the battery attached to the wall of the metal case.



5. Notice the battery's position. Carefully pry the battery off the wall.



6. Carefully scrape the remaining sticky tape off the metal wall.
7. On the new battery, remove the paper backing on the sticky tape. With the wires toward you, stick the new battery to the wall of the case in the same position as the old one.
8. Note the polarity of the battery's connector. Carefully plug it into the connector on the board.
9. Ease the boards back into the case and put the bottom plate back on, using the saved screws. Replace the PAC on the mounting rack, tighten the hold-down screw, and reattach cables.

The controller is ready for use.