

## CONTROLLER ACCESSORIES AND UPGRADES

### Features

- > Velcro® Mounting for Battery
- > Keyed Connector for Solderless Replacement
- > Lithium Battery for Long Life (Includes Replacement Date Sticker)
- > Low Self-discharge Rate Allows up to 10 Years Shelf Life Before Installation



G4BATT32

BATTERY INSIDE  
REMOVE 3 SCREWS FOR ACCESS  
REPLACE WITH OPTO 22 PIN G4BATT32  
BATTERY SERVICE RECORD  
DATE INSTALLED \_\_\_\_\_  
REPLACEMENT DATE \_\_\_\_\_

Replacement Date Sticker

## DESCRIPTION

The G4BATT32 is a kit to replace a discharged memory retention battery on the Opto 22's G4 and M4 Controllers.

The battery is designed for easy user replacement.

## SPECIFICATIONS

Specification	Value
Lithium Battery Operation Life	2-5 years
Shelf Life	10 years
Voltage	3 volts

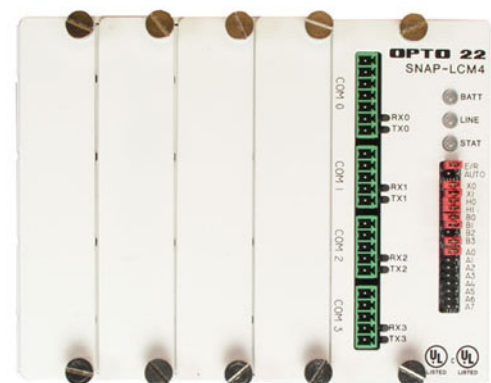
## CONNECTIONS

PIN	Use
1	Red +3V
2	Keying Plug
3	Unused
4	Black Ground

## INSTALLATION: SNAP-LCM4 CONTROLLER

**CAUTION:** When you change the battery, the strategy and all persistent data will be lost. Make sure you have the strategy available so you can download it after the new battery is in place.

1. Locate the OptoControl strategy and make sure it is available for downloading.
2. Turn off power to the controller and disconnect communication cables from COM0, COM1, COM2, and COM3.
3. Remove the cover with the SNAP-LCM4 label.
4. Carefully slide out the two circuit boards.
5. Replace the battery.
6. Carefully slide the two circuit boards back into place and replace the cover.
7. Reattach the communication cables. Reapply power.
8. Download the strategy to the controller.



## Part Numbers

Part	Description
G4BATT32	3.6V Battery For Controller Memory

## INSTALLATION: M4 OR G4LC32SX CONTROLLER

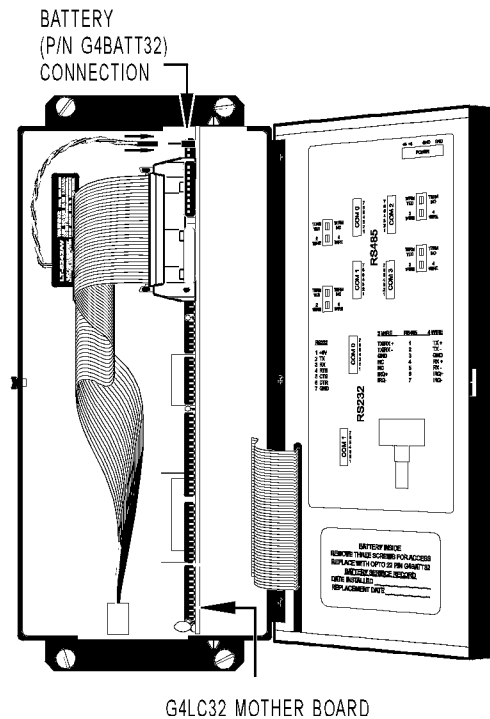
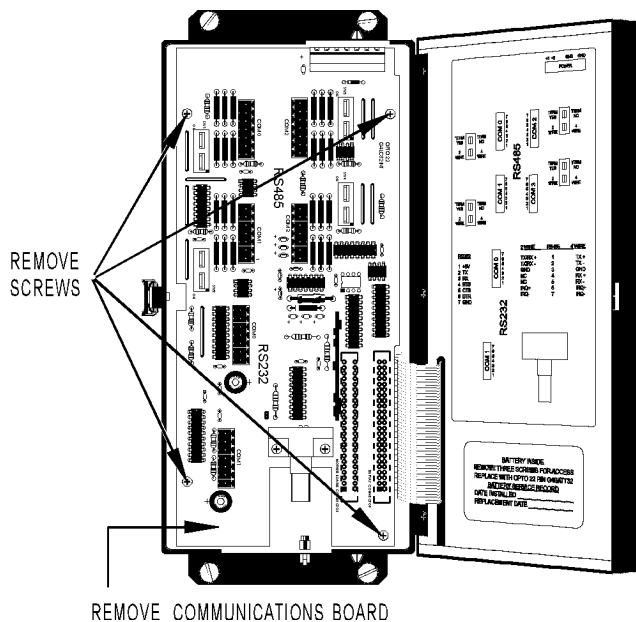
**CAUTION:** When you change the battery, the strategy and all persistent data will be lost. Make sure you have the strategy available so you can download it after the new battery is in place.

1. Locate the OptoControl strategy and make sure it is available for downloading.
2. Replace the battery.
3. Download the strategy to the controller.

## INSTALLATION: G4LC32 CONTROLLER

**CAUTION:** When you change the battery, the strategy and all persistent data will be lost. Make sure you have the strategy available so you can download it after the new battery is in place.

1. Locate the strategy and make sure it is available for downloading.
2. Remove the power and communication cable connections.
3. Remove the four screws attaching the communications board to the controller. (See image below.)
4. Gently pull off the communications board to access the mother board.
5. Replace the battery. (See image to the right.)
6. Reattach the communications board and all cables. Reapply power.
7. Download the strategy to the controller.



## PRODUCTS

Opto 22 develops and manufactures reliable, easy-to-use, open standards-based hardware and software products. Industrial automation, process control, building automation, industrial refrigeration, remote monitoring, data acquisition, and industrial internet of things (IIoT) applications worldwide all rely on Opto 22.

### groov EPIC® System

Opto 22's *groov Edge Programmable Industrial Controller (EPIC) system* gives you an industrially hardened system with guaranteed-for-life I/O, a flexible Linux®-based processor with gateway functions, and software for your automation and IIoT applications.

### groov EPIC I/O

*groov* I/O connects locally to sensors and equipment with up to 24 channels on each I/O module. Modules have a spring-clamp terminal strip, integrated wireway, swing-away cover, and LEDs indicating module health and discrete channel status.

*groov* I/O is hot swappable, UL Hazardous Locations approved, and ATEX compliant.

### groov EPIC Processor

The heart of the system is the *groov* EPIC processor. It handles a wide range of digital, analog, and serial functions for data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

In addition, the EPIC provides secure data communications among physical assets, control systems, software applications, and online services, both on premises and in the cloud.

Configuring and troubleshooting I/O and networking is easier with the EPIC's integrated high-resolution color touchscreen. Authorized users can manage the system locally on the touchscreen or on a monitor connected via the HDMI or USB ports.

### groov EPIC Software

Software included in the *groov* EPIC processor:

- PAC Control engine to run PAC Control and PAC Display
- CODESYS Runtime engine to run IEC61131-3 compliant programs built with CODESYS Development System
- Optional access to the Linux operating system through a secure shell (SSH) to download and run custom applications
- *groov* View for building your own device-independent HMI, viewable on the touchscreen, PCs, and mobile devices
- Node-RED for creating simple logic flows from pre-built nodes
- Ignition Edge® from Inductive Automation®, with OPC-UA drivers to Allen-Bradley®, Siemens®, and other control systems, and MQTT communications with Sparkplug for efficient IIoT data transfer

### groov RIO

*groov* RIO revolutionizes remote I/O by offering a single, compact, PoE-powered industrial package with web-based configuration, commissioning, and flow logic software built in, plus support for multiple OT and IT protocols.

Standing alone, it meets the needs of small, variable I/O count applications, especially those that require data logging or data communications, commonly found in IIoT applications. *groov* RIO can also be used with a Modbus/TCP master or as remote I/O for a *groov* EPIC system.

### Older products

From solid state relays (our first products) to world-famous G4 and SNAP I/O, to SNAP PAC controllers, older Opto 22 products are still supported and still

doing the job at thousands of installations worldwide. You can count on us to give you the reliability and service you expect, now and in the future.

## QUALITY

Founded in 1974, Opto 22 has established a worldwide reputation for high-quality products. All are made in the U.S.A. at our manufacturing facility in Temecula, California.

Because we test each product twice before it leaves our factory rather than testing a sample of each batch, we can afford to guarantee most solid-state relays and optically isolated I/O modules for life.

## FREE PRODUCT SUPPORT

Opto 22's California-based Product Support Group offers free, comprehensive technical support for Opto 22 products from engineers with decades of training and experience. Support is available in English and Spanish by phone or email, Monday–Friday, 7 a.m. to 5 p.m. PST.

Support is always available on our website, including [free online training](#) at OptoU, how-to [videos](#), [user's guides](#), the Opto 22 KnowledgeBase, troubleshooting tips, and [OptoForums](#). In addition, instructor-led, hands-on [Premium Factory Training](#) is available at our Temecula, California headquarters, and you can [register online](#).

## PURCHASING OPTO 22 PRODUCTS

Opto 22 products are sold directly and through a worldwide network of distributors, partners, and system integrators. For more information, contact Opto 22 headquarters at **800-321-6786** (toll-free in the U.S. and Canada) or **+1-951-695-3000**, or visit our website at [www.opto22.com](http://www.opto22.com).



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Authorized Distributor

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