



Quick Start for GROOV-AT1

Open →

1 Unpack the *groov* Box

You need:

- A computer with a modern web browser on the same network you'll use for the *groov* Box. We recommend Chrome, Firefox, or Internet Explorer 10.
- One of the following, on the same network as your computer. The network should have DHCP & DNS.
 - An OPC UA-compatible tag server communicating with virtually any automation system or equipment
 - A PAC S-series, PAC R-series, or SoftPAC controller with firmware R9.2a or newer, running a strategy developed in Opto 22's PAC Control

In the box...



2 Get Started

To set up the *groov* Box, you'll use the *groov* Box components shown below.

When deciding where to place the *groov* Box, make sure there is room around the front, top, and sides of the *groov* Box to allow air to flow freely around the device. You need to be able to see the information on the bottom.

Peel the label from the Activation Key Certificate and affix it to the top of the *groov* Box.



3 Connect to the network



Connect ETH0 to your computer's network.

If you have a separate control network, see the *groov* Box User's Guide.

For detailed information on setting up your network, and setting up communications over the Internet, see form 1796, the *Guide to Networking Opto 22 Products*.

4 Connect the power supply

Plug the small connector on the power supply into the power terminal on the bottom of the *groov* Box, and tighten the screws. Plug the other end into a standard 120 or 240 VAC outlet.

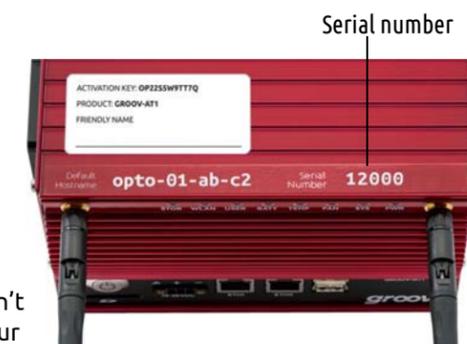


5 Turn on the *groov* Box

Briefly press and release the On/Off button. Wait until the SYS LED has stopped blinking and is solid green. Also, take a look at the LNK ACT light for ETH0. If the cable is properly connected, the LNK ACT light should be on or blinking.

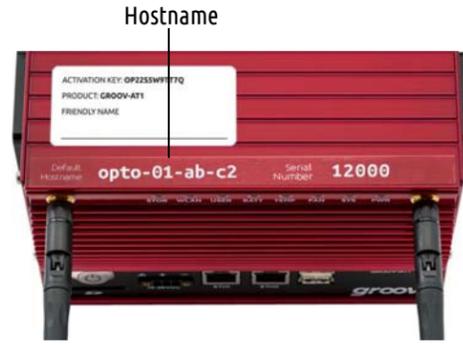
6 Activate the *groov* Box and get the license file

- Open a web browser (Firefox or Chrome recommended) and go to activate.groov.com.
- Log in using your email address and your My.Opto22 password. You may have set up your free My.Opto22 account when you purchased your *groov* Box. If you don't have a My.Opto22 account, enter your email address and other information, and the account will be created.
- Follow the on-screen instructions to activate your *groov* Box and download the license file. When asked to enter the serial number, you'll find it on the label on the top of the device.



7 Open groov

- In your browser, enter `https://` and your *groov* Box's hostname as the URL. For example, if the hostname is `opto-00-d2-dc`, you type `https://opto-00-d2-dc`



- Accept the security warning.

For Chrome: Click "Proceed anyway."

For Firefox:

- Expand "I Understand the Risks."
- Click Add Exception to open the Add Security Exception dialog box.
- Select "Permanently store this exception."
- Click Confirm Security Exception.

For Internet Explorer: Click "Continue to this website (not recommended)."

The **Welcome to groov** window opens in your web browser.

- Click Next.

*NOTE: If the **Welcome to groov** window does not open, your network configuration is probably unique. Please see the *groov Box User's Guide*.*

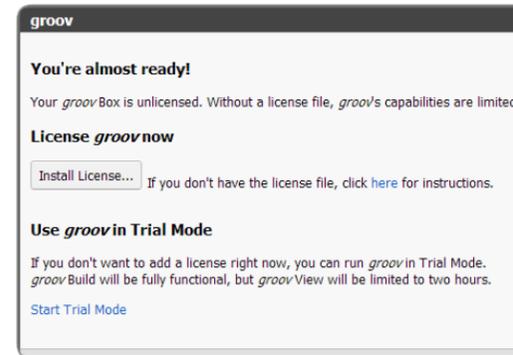
8 Create a groov Admin account and install your license

Follow the on-screen instructions to create a username and password for *groov* Admin. The Admin account is for administrative tasks such as setting the network connections and updating the *groov* Box.

CAUTION: Write down your Username and Password, and keep them in a safe place. You will need this information each time you log in. If you lose your login information, you will have to reset the *groov* Box to factory defaults which will erase your project. There is no password recovery option.

Make sure to install your license file. Without an installed license, *groov* will only work for two hours.

- When prompted, click Install License.
- Browse to the license file, then click Open. Your license is now installed.



10 Get a tag database

You can add a tag database from an Opto 22 controller or from another manufacturer's system or device communicating with an OPC UA-compatible tag server. For more information, see form 2027, the *groov User's Guide* and the documentation provided for your device and tag server.

Follow these steps to add tags from another manufacturer's device:

- In Build, select Configure > Devices and Tags.
- Click Add OPC-UA Server, and enter the Name of the OPC-UA server.
- For the Server URL, using the following format, enter the IP address or hostname of the computer where the OPC-UA server is installed, and enter the port. You can also enter the path of the OPC server endpoint.
- Click Add Server, then close the open dialog boxes.

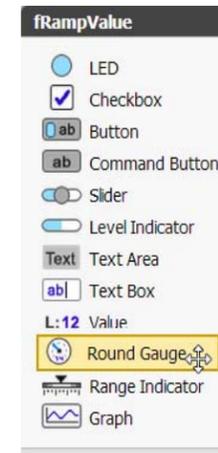
The controller's static tags are now available for you to browse and use.

Follow these steps to add tags from an Opto 22 controller:

- In Build, select Configure > Devices and Tags.
- Click Add Opto 22 Controller.
- Enter the IP address of a PAC S, PAC R, or SoftPAC controller running a strategy you would like to use.
- Click Browse to locate the **.idb.txt** file for your strategy. The **.idb.txt** file resides in the strategy's directory. It's created when the strategy is compiled.
- Highlight the **.idb.txt** file, click Open, and then click Import.
- Close the Configure Devices and Tags dialog box. The imported strategy's tags are now available to use.

11 Build your operator interface

- Click Add Page on the left side under Pages.
- Type a new name for the page, then click OK.
- With the Tags tab selected in Gadget Palette, click the plus sign to expand the list of tags.
- Choose a tag that changes its value frequently.
- In the pop-up dialog box, double-click a Round Gauge.
- In the upper right corner, configure the Round Gauge properties. To add a zone, click the Add Zone button. Choose the Min Value, Max Value, and Units that make sense for your variable.
- Select File > Save All Changes and Switch to *groov* View.
- You should now see the Round Gauge running in View. The needle shows the tag's current value.



9 Create a groov Build account

A Build account allows the user to create and edit a project in *groov* Build.

- When prompted, enter a new username and password. Enter the password again to confirm.
- Click Create *groov* Build Account.
- Click Go to *groov* Build. *groov* Build opens in your browser. If you have any trouble opening *groov*, see Troubleshooting in Form 2027, the *groov User's Guide*.

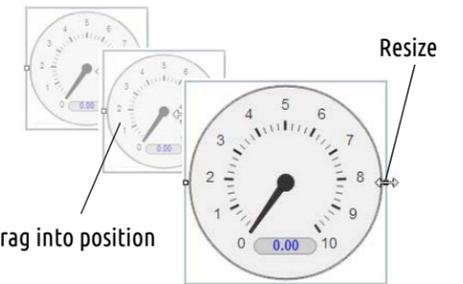
Welcome to
groov
mobile made simple.™

That's it! You're finished with initial setup and ready to create your *groov* project.

Go to *groov* Build!

12 Adjust the handheld layout

- Click the gear symbol in the upper-right corner of View, and select Switch to *groov* Build.
- Add several more tags and gadgets to your project, and arrange them in the Desktop & Tablet view.
- Click the Handheld tab at the top of the work area. You'll notice that the gadgets are arranged differently in the Handheld view, but they contain exactly the same gadgets, tags, and properties. Drag into position
- Drag each gadget into position, and resize it as necessary for the Handheld view. Switch to the Desktop & Tablet layout. You'll notice that arranging the gadgets in the Handheld layout does not affect the Desktop & Tablet layout.



To get updates at any time, go to manage.groov.com. For update instructions, see the *groov Box User's Guide* on the *groov* Box CD.
Backing up your project: As you work on your project, make sure to back up frequently in *groov* Build. For more information, see the *groov User's Guide*.