

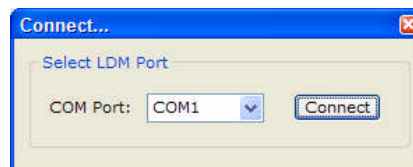
1 LDM-Config Tool Walkthrough

LDM-Config is a graphical configuration tool that allows the end user to modify, install, extract, load and save LDM configurations. This document describes most of the routine installation and maintenance procedures.

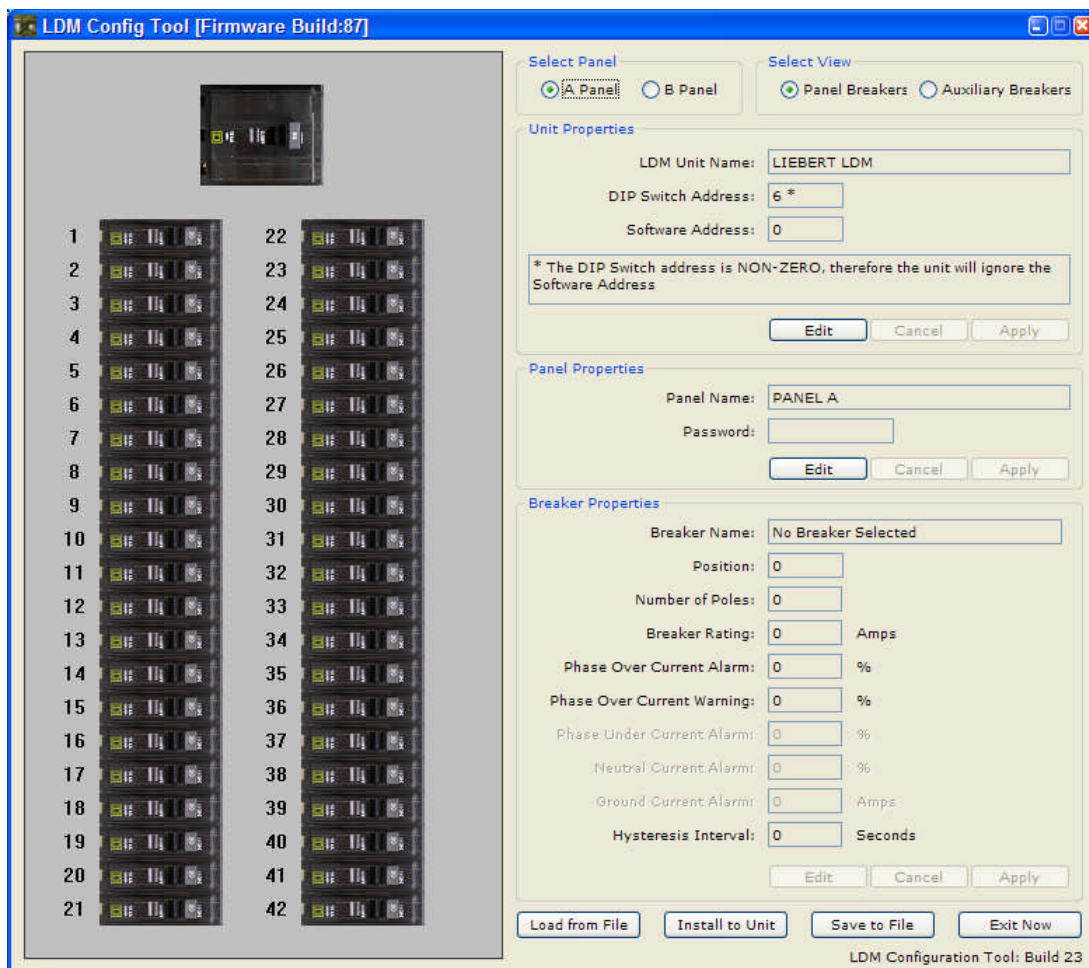
To start the configuration tool, click on the LDM-Config icon:



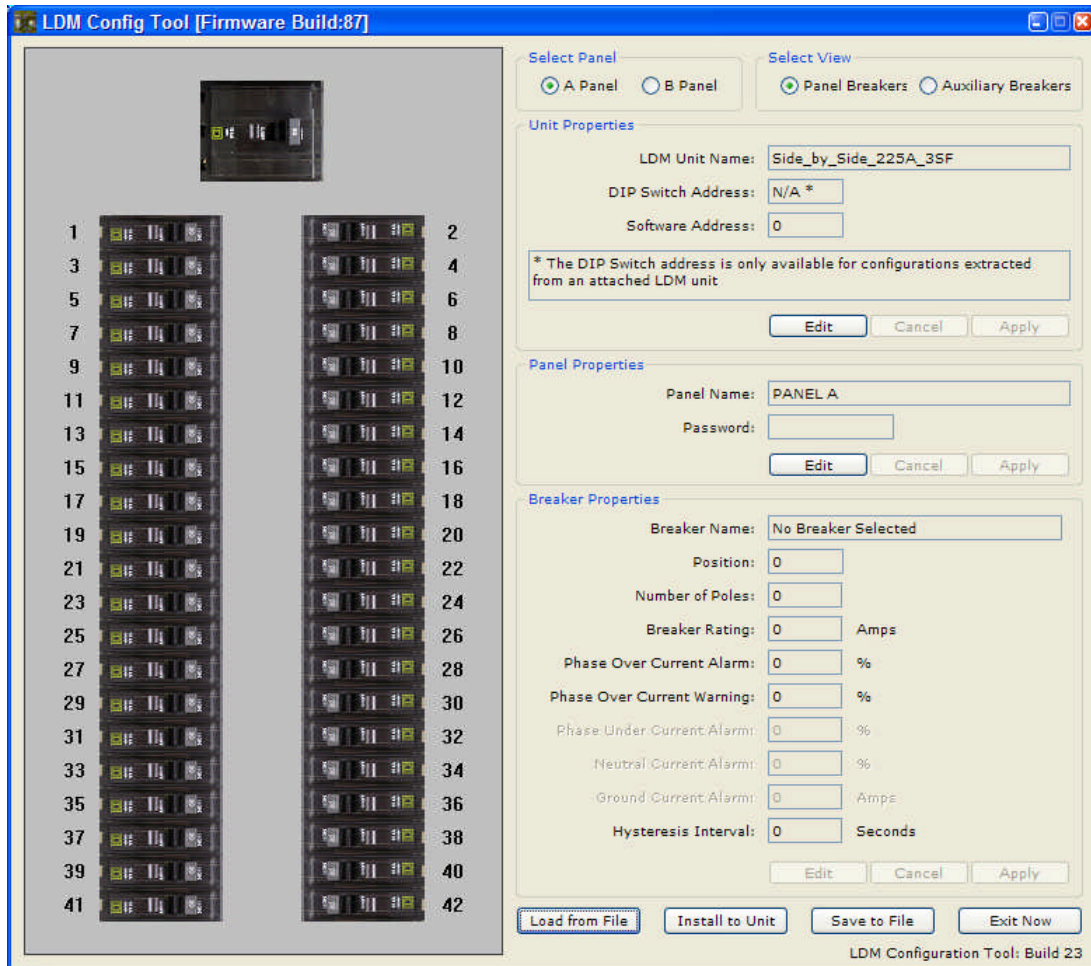
The LDM-Config tool requires an RS-232 serial connection to the service terminal port on the LDM unit. When the program starts, it prompts the user to select the COM port where the LDM unit is attached:



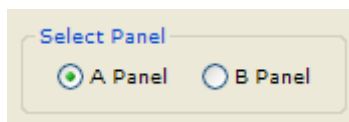
After loading the configuration, it displays the graphical configuration window, as shown below:



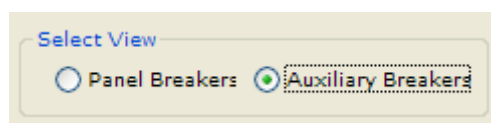
Because of the limited screen space, the LDM-Config tool displays both in-line and side-by-side panels with the breakers in two columns. For in-line panels, the breakers are numbered sequentially and the breaker number is located to the left of the breaker (see above). For side-by-side panels, the breakers are numbered with odd-numbered breakers on the left and even-numbered breakers on the right (see below).



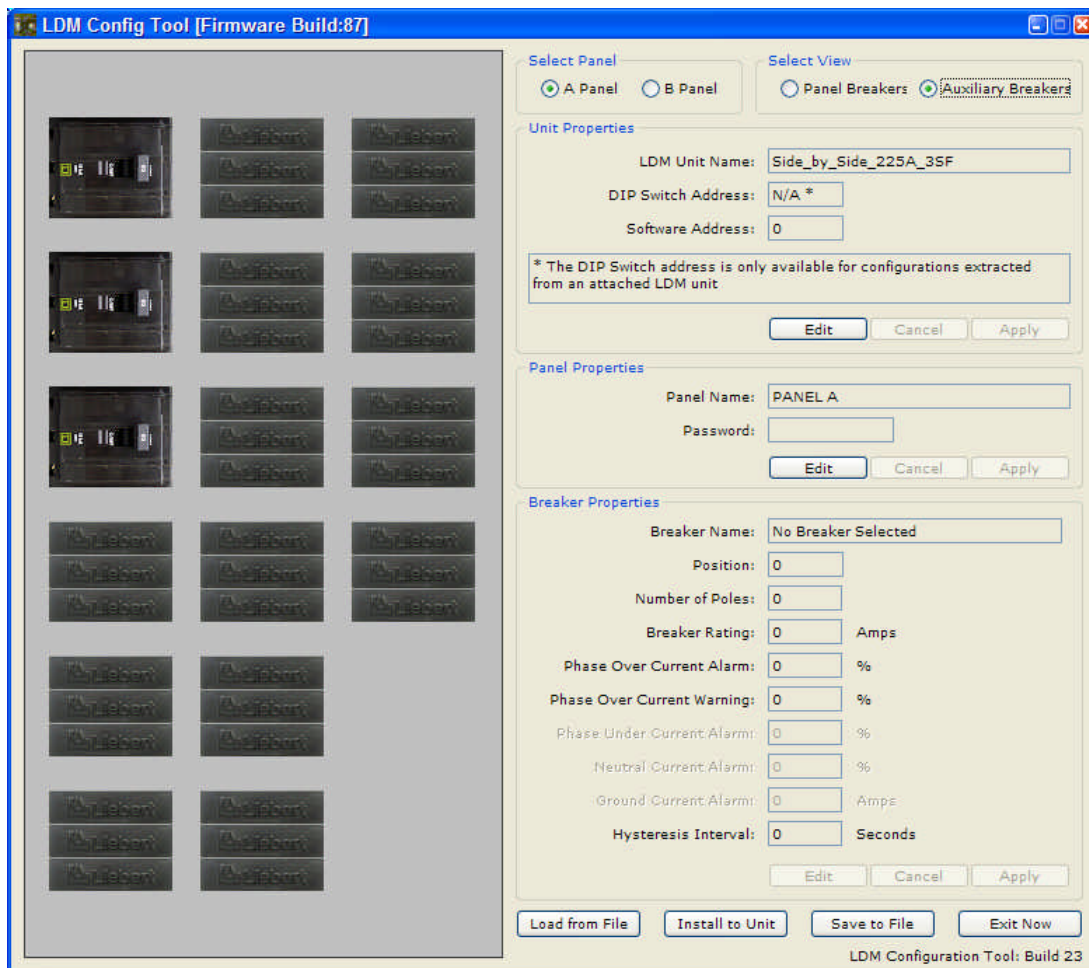
The graphical view on the left is used to select the active breaker. The right side of the display shows the details of the LDM Unit, panel and breaker properties. The “Select Panel” box allows the user to toggle between Panel A and Panel B:



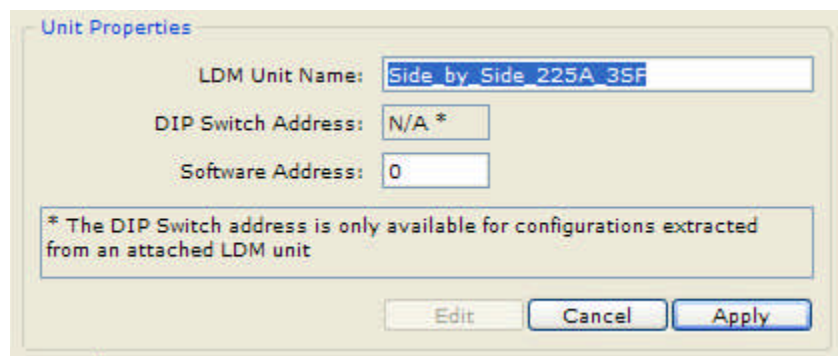
And the “Select View” box allows the user to switch between the panel breakers and auxiliary breakers:



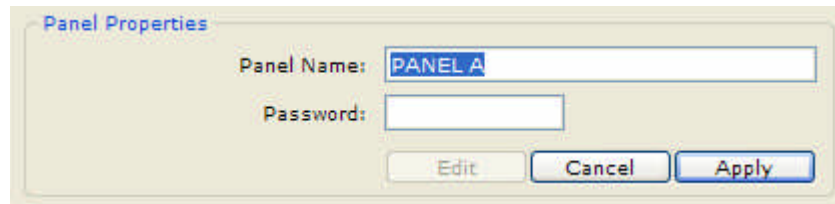
The auxiliary view for a configuration with subfeeds is shown below:



The “Unit Properties” apply to the entire LDM unit. By clicking the “Edit” button in the unit properties box, you can change the Unit Name or Software Address fields:



The “Panel Properties” are specific to each panel. To edit the Panel Name or Password for the selected panel, click the “Edit” button in the panel properties box:



The "Panel Properties" dialog box is shown. It has a title bar "Panel Properties". Inside, there are two text input fields: "Panel Name:" with the value "PANEL A" and "Password:" which is empty. Below these fields are three buttons: "Edit", "Cancel", and "Apply".

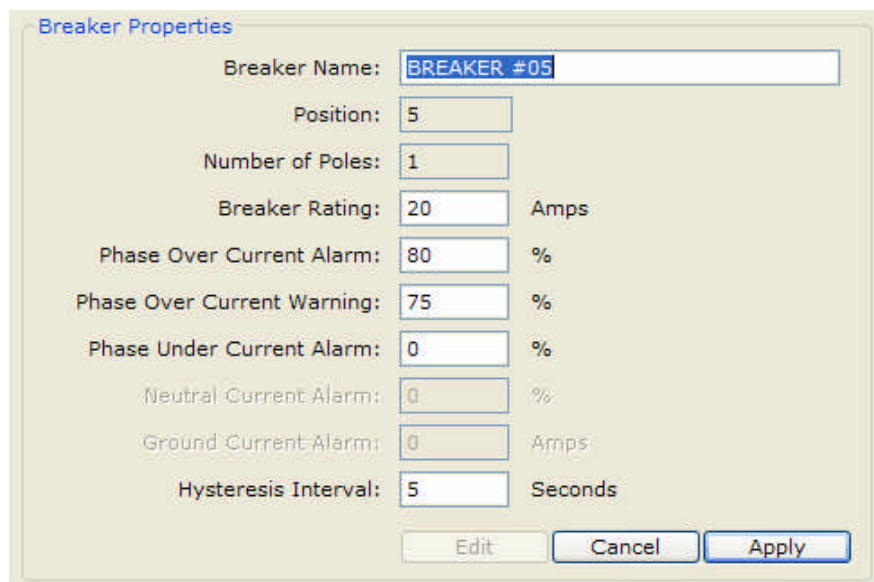
To edit breaker properties, you must first select the breaker you want to edit. The breaker is selected using the mouse and the graphical panel display. As the mouse passes over a breaker it is highlighted in yellow as shown:



Clicking on the breaker makes it the active breaker. The active breaker is outlined with a bright yellow box:



The properties of the active breaker are displayed in the "Breaker Properties" box. By clicking the "Edit" button in the breaker properties box allows you to change the breaker name, rating and alarm set-points:



The "Breaker Properties" dialog box is shown. It has a title bar "Breaker Properties". Inside, there are several text input fields and labels: "Breaker Name:" with the value "BREAKER #05", "Position:" with the value "5", "Number of Poles:" with the value "1", "Breaker Rating:" with the value "20" and the unit "Amps", "Phase Over Current Alarm:" with the value "80" and the unit "%", "Phase Over Current Warning:" with the value "75" and the unit "%", "Phase Under Current Alarm:" with the value "0" and the unit "%", "Neutral Current Alarm:" with the value "0" and the unit "%", "Ground Current Alarm:" with the value "0" and the unit "Amps", and "Hysteresis Interval:" with the value "5" and the unit "Seconds". Below these fields are three buttons: "Edit", "Cancel", and "Apply".

2 Common Configuration Tasks

This section describes the procedures for performing some of the most common configuration tasks with the LDM-Config tool, specifically:

1. Loading a configuration from a file
2. Saving a configuration to a file
3. Installing a configuration to an LDM unit
4. Adding a branch breaker
5. Deleting a breaker
6. Changing alarm set-points or breaker rating

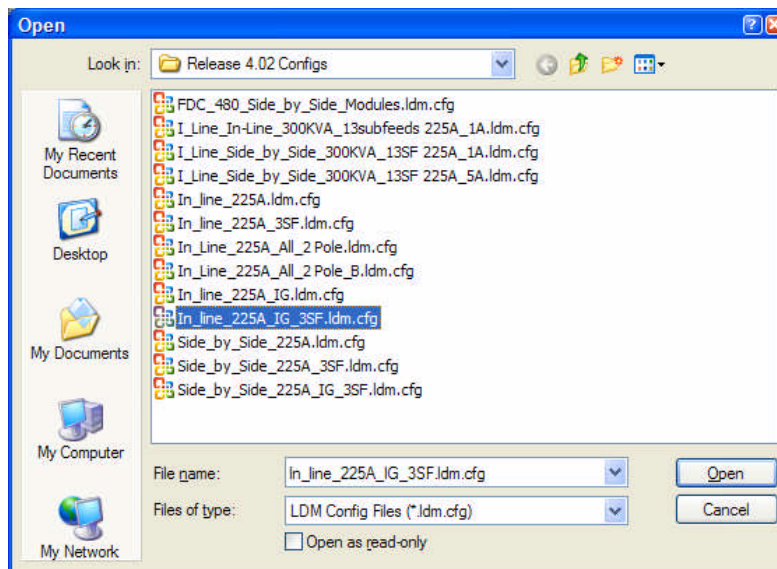
Each of these procedures is described in detail in the following sections.

2.1 Loading a Configuration

This section explains how to load a pre-defined LDM configuration from a file into the program. Notice, this procedure *does not* modify the configuration on the LDM unit. To update the configuration stored on the LDM please refer to section 2.3 “Installing a Configuration”.

LDM configuration files have the .ldm.cfg file extension, for example, “default.ldm.cfg”. The file contains the configuration for a single LDM unit which consists of two panels. These are machine-readable files, which means you cannot view or edit them with programs such as Microsoft Word or Notepad.

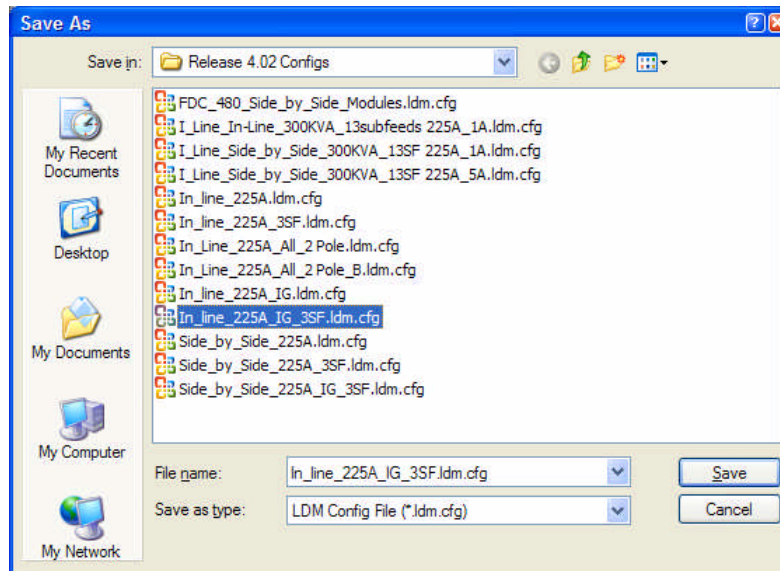
To load a file, just click the “Load from File” button at the bottom of the right side of the main window and the following window will appear:



Select the configuration you want to load by double clicking on the file name or by typing the file name and clicking the “Open” button. If the configuration loads successfully, the program will return to the main configuration window. At this point you have successfully loaded the configuration from the file.

2.2 Saving a Configuration

To save the current configuration to a file, simply click the “Save to File” button. Notice, this procedure has no effect on the configuration stored on the LDM unit; it only updates or replaces an LDM configuration file on disk. When you click the “Save to File” button the following dialog box will appear:



Enter the name of the file you want to create, or click on the name of the file you want to replace, then click the “Save” button. You can exit the procedure without writing a file by clicking the “Cancel” button or by hitting the “Esc” key.

2.3 Installing a Configuration

To install the current configuration onto an LDM unit, simply click the “Install to Unit” button near the bottom right side of the window. The system will display the installation progress as the configuration is downloaded to the LDM, the data is committed to non-volatile memory and the LDM unit is restarted.

Although the configuration has been saved to the LDM unit, at this point you may wish to save the configuration to a file for backup purposes or for future reference.

2.4 Adding a Branch Breaker

To add a branch breaker to a panel, go to the graphical view and right-click on the first panel position that you want the new breaker to occupy. Notice, the panel position must be unoccupied before you can install a new breaker. An unoccupied position is displayed as panel blank which looks like this:

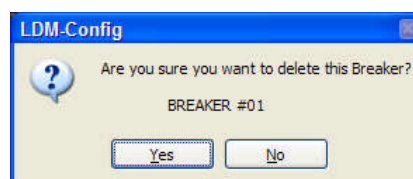


When you right-click on the blank, a pop-up menu will appear. Select “Add Breaker” and then select “One Pole”, “Two Pole” or “Three Pole” depending on the type of breaker you want to install. Once the breaker has been added it is displayed as the active breaker in the graphical view.

To edit the new breaker, simply double-click on the breaker graphic or click the “Edit” button in the “Breaker Properties” box.

2.5 Deleting a Breaker

To delete a breaker, simply right-click on the breaker in the graphical view and select “Delete Breaker” from the pop-up menu. It will ask you to confirm the deletion before proceeding:



After being deleted, the breaker will be replaced with one or more blanks in the graphical view.

2.6 Changing Alarm Set-Points or Breaker Rating

To edit any breaker and change the alarm set-points or breaker rating, simply double-click the breaker in the graphical view. The breaker will become the active breaker, its properties will be displayed in the “Breaker Properties” box and the cursor will highlight the breaker name. At this point you can begin making changes. You can move to other properties using the Tab key or mouse. When you’re done editing you can click “Apply” to keep the changes or hit the “Esc” key or click the “Cancel” button to abandon the changes and revert to the previous values.

Notice: None of the changes you make to the configuration are saved until they are either written to a file using the “Save to File” button, or downloaded to an LDM unit using the “Install to Unit” button.