

## Installing and using the Firmware Update Utility

Use the Firmware Update Utility (FUU) to install new firmware in your main panel or expansion panel. To use this utility, ensure that your PC or laptop can connect to the panel via RS-232 or TCP/IP. Note that you must also ready your panel so that it can receive the new firmware. Follow the steps below to install and run the utility, and how to ready your panel to receive the firmware.

### Notes

Before using this utility to install new firmware, be sure that the panel's configuration utility (CU) is not communicating with the panel via RS-232 or TCP/IP. If the CU is connected and is downloading information to the panel, wait for the download to complete, and then end communications with the CU. Once you disconnect the CU, you can use the FUU to install the new firmware.

### Before you begin

Before initiating a download, we recommend that you do the following.

- Retrieve the panel's firmware to ensure an update is required. Log on to the panel with the level 2 password.
- Ensure only one application (CU or FUU) is active and communicating with panel at a time.
- Before writing the firmware to the panel from the FUU, ensure that the CU is not in communication with panel.
- Before initiating a session with the panel through the CU, ensure the FUU is not in use.
- Ensure the AC power and battery voltage is sufficient.
- For RS-232 serial communications, ensure at least one serial port is available to communicate with the system. The serial port must have a functional window driver installed and a cable and printer card is required to communicate with the system.
- For USB communications, ensure a USB-serial converter is connected and the appropriate drive is installed.
- For TCP/IP communications, an Ethernet cable and card are required.

### To install the utility:

1. Run the Firmware Update Utility by clicking the desktop icon, or using the Windows Start menu option.
2. Select the communication method; click either the RS232 or TCPIP radio button.
3. In the Properties area, enter the connection properties for the panel. See [Setting up a COM port connection](#) and [Setting up a TCP/IP connection](#).

### To display the panel's current firmware version:

1. In the Panel Select area, click the Main Panel or the Expansion Panel radio button.
2. Click the Retrieve Panel Firmware Version button.

When the connection properties are set correctly, the current firmware version displays. If it does not display, recheck the properties and connections and try again.

### Notes

- The utility only displays the firmware version for a panel configured with firmware version 2.2 or later.
- Expansion panel firmware update and version request is not functional in this release.

### To ready the panel for the firmware update:

1. Press the Main Menu button and choose Program.
2. Choose Firmware Updates.

3. Enter a level two password.
4. Select Initiate to start the firmware download.

The Download Status menu displays showing the target as “None” and status as “Waiting.”

#### **To update the firmware:**

1. After initiating the firmware update from the panel, enter the Level 2 password in the Properties window of the FUU in order to establish communication with the panel.
2. Select a connection method (RS232 or TCPIP), and then enter the corresponding fields required to connect to the panel in properties window.
3. Select the desired target panel (main or expansion) in the Panel Select field.
4. Browse to the desired image by clicking Browse in the Image Path field.
5. Click Write to Panel.

**Note:** When using the serial communication, be sure to set the ‘RS232 CU Enable’ in the panel to ON before and after initiating the download. If the system should timeout before the download starts, you must re-enable it.

#### **After a download completes**

When a download completes successfully, the pseudo event “Fw Download Completd” displays on the panel.