

Configuring Your Operator Panel

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Preparing for Configuration

OP-WINEDIT Software

The OP-420 is configured with software running on a personal computer. This software is available through **PLCDirect** and is referred to as OP-WINEDIT configuration software.



More about OP-WINEDIT

The OP-WINEDIT configuration software allows you to configure OP-panel applications, as well as download (write to panel) and upload (read from panel) the configurations. Use this software to configure your communication link, select pushbutton control, and enter operator display messages. Order the software from **PLCDirect** using part number OP-WINEDIT. The OP-420 panel requires version 2.3 or later.

HELP Screens

The OP-WINEDIT software provides **Help** windows which supply instructions for performing all necessary configuration tasks. Should you have problems understanding how to program your panel, refer to these built-in Help windows. To access the Help windows, point and click on the Help menu and choose **U**sing help, or click on the [?] icon located near the top of the main configuration window.

HELP Screen
Menu



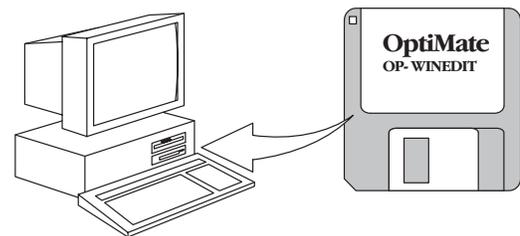
Application Worksheets

To prepare your application, use the Application Worksheets which are provided in Appendix A of this manual. The example worksheets will help you configure the OP-420 panel. The blank worksheets can be photocopied and used in planning your own applications.

Computer System Requirements

Your personal computer must meet the following minimum requirements:

- ✓ IBM type 386 or above
- ✓ **Windows 3.1 or later, including Windows 95 or NT**
- ✓ 1 meg of hard drive
- ✓ 1 meg of RAM

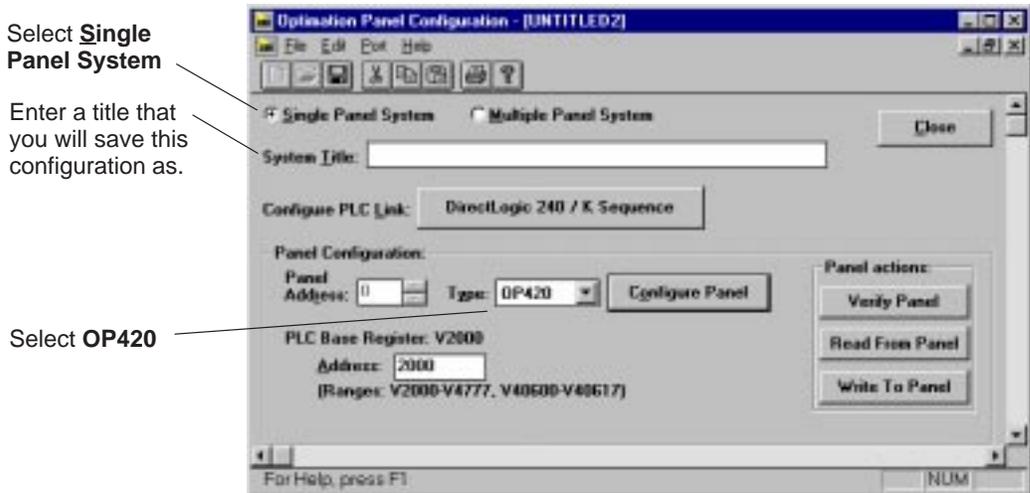
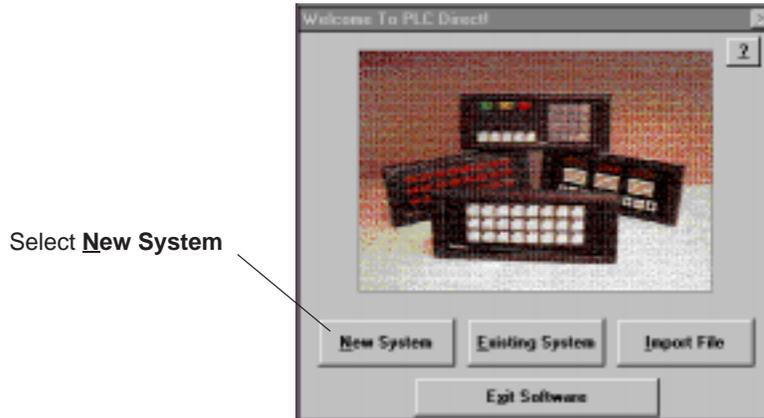


How to Configure Your Panel

Follow these steps to configure your OP-420 operator panel.

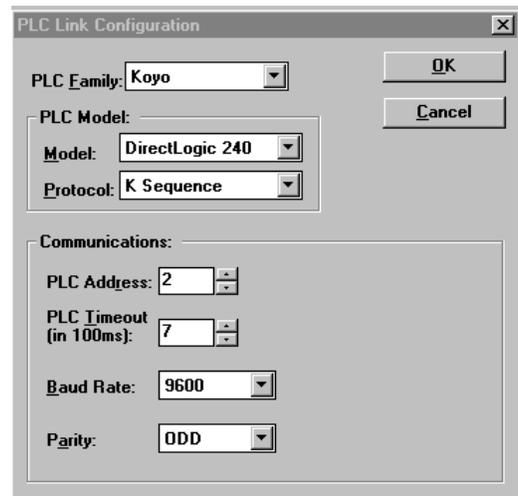
- Step 1 Load OP-WINEDIT** – If you are not already using the configuration software or have an older version, you must install version 2.3 or later (if you are using an older version of OP-WINEDIT you can obtain an upgrade at our web site). The software is provided on one 3-1/2 inch high-density diskette and comes with its own manual. Here are brief installation instructions.
- Place the installation disk into your computer's floppy drive (usually either drive A or drive B).
 - Open Microsoft™ Windows (3.1 or above). For Microsoft Windows 95 or NT the **Start/Run** program task bar is located at the bottom left portion of your screen. For Microsoft Windows 3.x versions select **File/Run** from the Program Manager screen.
 - Select **R**un, and a pop-up window appears. Type in the path for the drive in which you have placed the setup disk and designate the file **setup**. Click on **OK** when you are finished.
- Step 2 Connect Panel to PC** – Connect the OP-420 to your personal computer using the OP-CCBL configuration cable. Make sure the OP-PS400 5 VDC power supply is connected.

- Step 3** **Open OP-WINEDIT** – Select New System.
- Step 4** **Start Configuring Your Panel** – Start by filling in these parameters:



- Step 5** **Select Configure PLC Link** – Here is where you define protocol items such as PLC address, baud rate and parity. Enter the appropriate parameters for your PLC. The following table provides the necessary information for most PLC *Direct* controllers. For other PLC families, reference that product's user manual to determine the port communications capabilities.

During configuration, make sure that your address and communications parameters match the PLC port settings. The PLC Timeout works like this: When the panel sends a message to the PLC and does not receive a response or does not understand the response, it will wait the time-out period before resending the message.



You also have several ports which can be used to connect your communications cable. Some of these ports have fixed PLC address assignments, and some *do not*. The ports which allow configuring the PLC addresses can be set to a unique address, ranging from 1 through 90. **Refer to your User Manual for specific information on the ports of your PLC.**



NOTE: For Allen-Bradley, you will need to connect to Channel 0 (bottom serial port), using DF1 full duplex. Additionally, the Allen-Bradley software allows you to set the bottom port to a unique PLC address. The software default is PLC Address 1. You must select CRC error detection and make sure the address on the configuration screen matches the address you have assigned. This port must also be configured for either 4800 or 9600 baud. No other baud rates are supported for communicating between the OP-panels and an Allen-Bradley PLC. Since the Allen-Bradley software uses a default baud rate of 1200, you must change the settings.

PLC Model	Port/Baud Rates	Parity	Stop Bit
DL105/230/240	Top 9600	Odd	1
	*Bottom Bottom (DL240 only) 9600/19.2k	Odd/None	
DL250	Top 9600	Odd/None	1
	*Bottom 9600/19.2K		
DL330	*DCU only 4800/9600/19.2k	Odd/None	1
DL340	Bottom & Top 4800/9600/19.2k	Odd/None	1
DL350	*Top 9600	Odd	1
	*Bottom 4800/9600/19.2K	Odd/None	
DL430/440	Top Top 9600	Odd	1
	*Bottom 9600/19.2k	Odd/None	
DL450	DB15 9600	Odd	1
	*DB25 9600/19.2k	Odd/None	
	*RJ12 9600/19.2k	Odd/None	

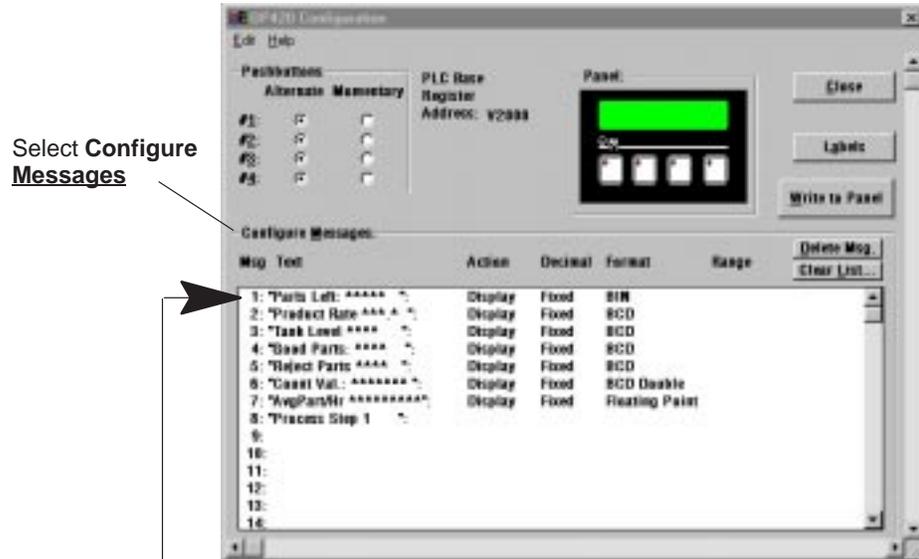
* These ports do not supply +5VDC. You must use the OP-PS400 external power supply.

Step 6 Select the Base Register Address – This step is very important because it establishes the link in your PLC memory to the panel. Chapter 3, Understanding the Features, describes the mapping process. Once you are familiar with the mapping process and you know which memory block in your PLC to use (refer to the user manual for your PLC), enter your selection.

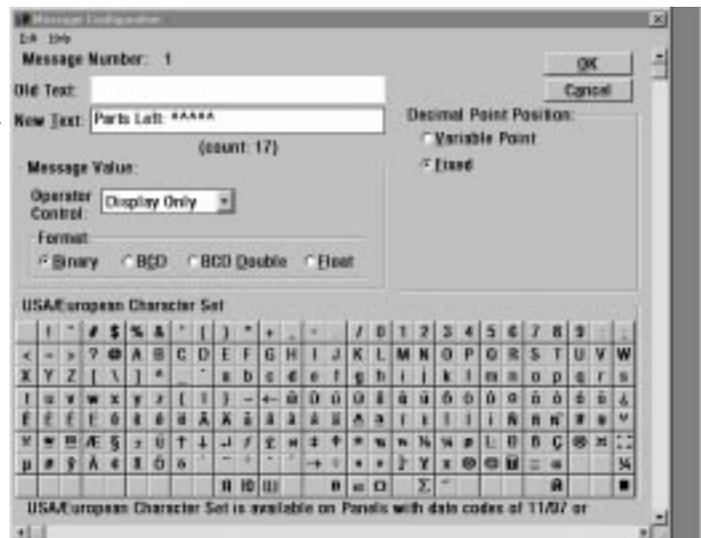
If you choose Allen-Bradley as your PLC Type, you must enter the PLC File Number in addition to a Base Register Address. You must expand the memory map in the Allen-Bradley PLC to include all registers being used by the OP-panel. The panel will only recognize integer file types N7 and user-defined file types N9 through N255. Enter the number only and not the prefix N. The Base Register Address is any number between 0 and 255.

Step 7 Configure the Panel Features – These features are discussed in detail in Chapter 3, but they include:

- **Pushbutton Configuration** – The pushbuttons can be configured as either Momentary or Maintained (alternate ON/OFF). Momentary pushbuttons remain ON as long as they are pressed, while Maintained pushbuttons retain their status (ON or OFF) until the next time they are pressed.
- **Messages** – Enter all messages using the Configure Messages window.



For example, to enter message #1, place cursor by the "1." area and double-click. This screen appears, allowing you to enter the message. Select OK when message is written.



Step 8 Download and Save – Connecting the OP-CCBL configuration cable places the panel in configuration mode. Select Write to Panel to download the configuration to your panel. When the program is finished downloading, wait a few seconds before disconnecting the configuration cable. Disconnecting the cable returns the panel to run mode. When downloading to OP-panels which have already been configured, first clear the message list (Clear List) before loading the new configuration. This removes old messages which may reside within the OP-panel's memory. Remember to save your configuration program before closing OP-WINEDIT.