Installation and Specifications

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- Panel Specifications
- Power Supply Connections
- Connecting the Configuration Cable
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Labeling the Field Points

Labeling the OP–414 panel is a relatively simple process that involves removing the bezel and sliding a label transparency into a pocket in the panel overlay. The transparent film can be purchased from almost any office supply store in standard 8-1/2" x 11" sheets. It is designed to run through a copy machine or laser printer.

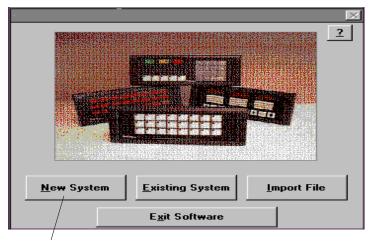


Creating the Labels The easiest way to create labels is to use the built-in label making function of the OP–WINEDIT configuration software. This is the preferred method and is shown next. The labels can also be created manually using the template shown on page NO TAG. Here are some ways of manually creating labels:

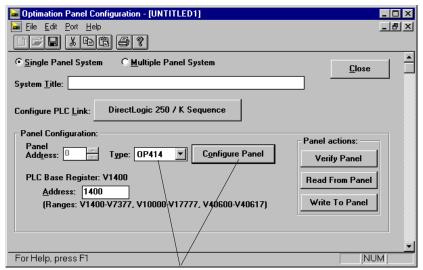
- Use a computer graphics program and a laser printer to create the transparency directly, or print the labels on paper and photocopy them to a transparency sheet.
- Use press-on letters on a transparency sheet.
- Use a typewriter or lettering machine, or use press-on letters to create labels on a paper sheet, then photocopy the paper sheet onto a transparency sheet.

Creating Labels Using OP–WINEDIT

Making labels using the OP–WINEDIT configuration software is easy (see Chapter 4 for information on loading and using OP–WINEDIT). After loading OP–WINEDIT, follow these steps:



1. Open OP–WINEDIT and select <u>New System.</u>



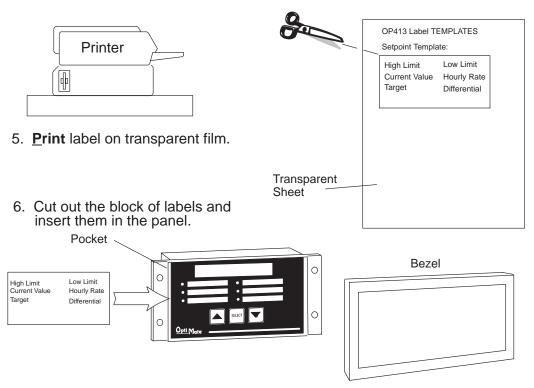
2. Select **OP-414**, and **Configure Panel.**

0P414	Configuration				X			
Panel:			Panel Address: 0		<u>C</u> lose			
÷	Selet J		PLC Base Register Ado Force Option		L <u>a</u> bels <u>W</u> rite to Panel			
Configure Field Points:								
To modify a field point, type the point number in the box below or select the point from the list, then press the 'Modify' button.								
Configure Field Point#: 1								
Point	Туре	Format	Digits	Range				
1:	Setpoint	BCD	0	0-9999	9999 🔺			
2:	Setpoint	BCD	/0	0-9999	9999			
3:	Setpoint	BCD	/ 0	0-9999	9999			
4:	Setpoint	BCD /	í O	0-9999	9999			
5:	Setpoint	BCD	0	0-9999				
6:	Setpoint	BÇØ	0	0-9999	9999 🔽			

3. Select Labels.

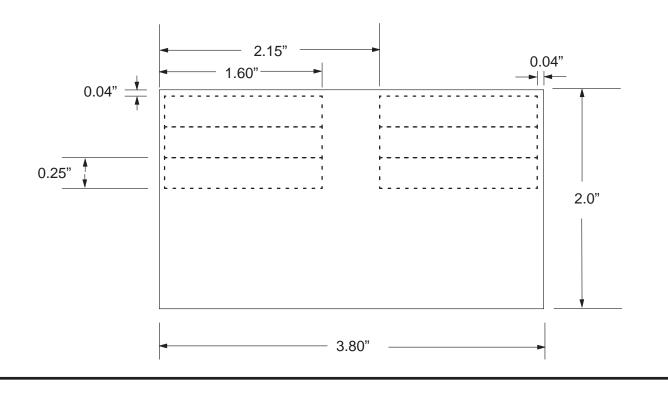
OP414 Label Template	×
Print	ŪK
	Cancel
Field Points:	

4. The OP–414 Label Template appears. Type in the label text for all six Field Points. Press **OK** to save the labels.



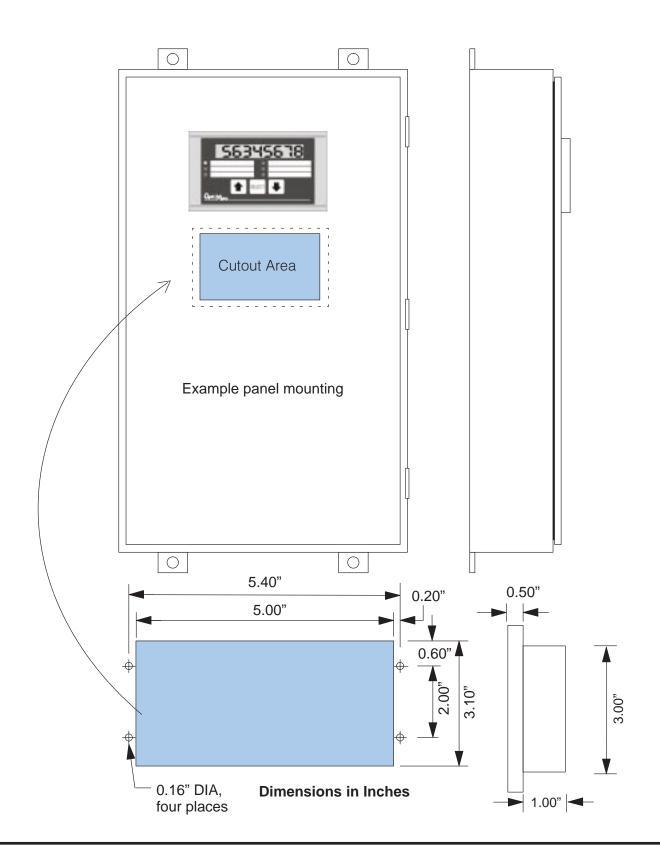
Remove the bezel from the module by unsnapping the four plastic tabs which hold the bezel to the module frame. Locate the pocket, and carefully slide the labels into place. Re-attach the bezel by snapping the bezel onto the case.

Template for Manually Creating Labels



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Dimensions for Mounting



Panel Specifications

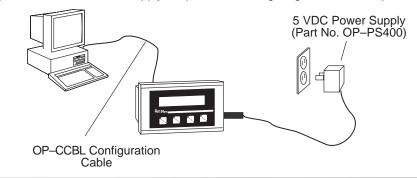
Physical Specifications	Weight	8 000005
	Panel Fasteners	
	Pushbutton Life	
	Numeric LED Size	-
	NEMA Rating	e
Environmental		
Specifications	Operating Temperature	0° to 50° C
	Storage Temperature	–20° to 70° C
	Operating Humidity	95% (non-condensing)
	Air Composition	No corrosive gases permitted
Operating		
Specifications	Power Consumption	0.85W @ 5 VDC
		(Power On surge of 0.35 A for 1 ms max.)
	Power Connector	Three terminal DC power plug, center negative
	Power Supply	+5 VDC external power supply required for configuration on all panels; required for operation on all PLCs except DL05, DL105, DL205 and DL405.
	Minimum/Maximum Supply Voltage	+5 VDC only
	Diagnostics	LED Status
	Communication Link	RS-232 4800 to19200 baud 6-pin RJ12 phone jack type connector

Power Supply Connections

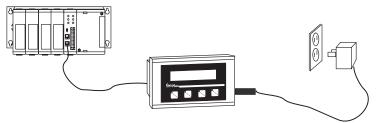
OP400 series panels require +5 VDC input power. An optional 5 VDC external power supply that plugs into a standard 120 VAC receptacle is available (part no. OP–PS400). This power supply (or equivalent) is required for configuring your panel. It is also required for operation **unless** you are using a DL05, DL105, DL205 or DL405 PLC; these products supply 5VDC through the communications cable. All other PLCs, including DL305 and Allen-Bradley 5/03, 5/04 and Micrologix, require the use of an external 5VDC power supply during operation.

NOTE: Only use a 5 VDC power supply that has a center negative DC power jack.

Configuration: 5 VDC Power Supply Required For Configuring All 400 series panels



Operation Using a D3–340, D3–350, D3–330 w/DCU, Bottom Port of DL405 or Allen-Bradley CPU: 5 VDC Power Supply Required



Operation Using a DL05, DL105, DL205, or Top Port of DL405 CPU: 5 VDC Power Supply Not Required



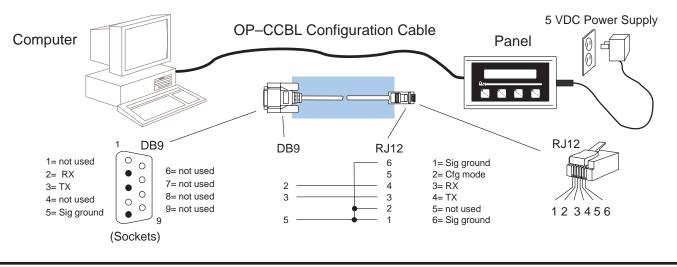
2–7



Connecting the Configuration Cable

Configuration Cable

You will need two cables to use your OP-panel: A configuration cable (part number OP–CCBL) and a communications cable. Connect the configuration cable between the serial port on the rear of the OP-panel and the serial port of the personal computer. The panel may then be configured using the OP–WINEDIT configuration software. The figure below shows configuration cable connectors and wiring specifications. The wiring diagram refers to the cable connectors, *not* the communication ports. This cable is disconnected after configuration.



Selecting a Communications Cable

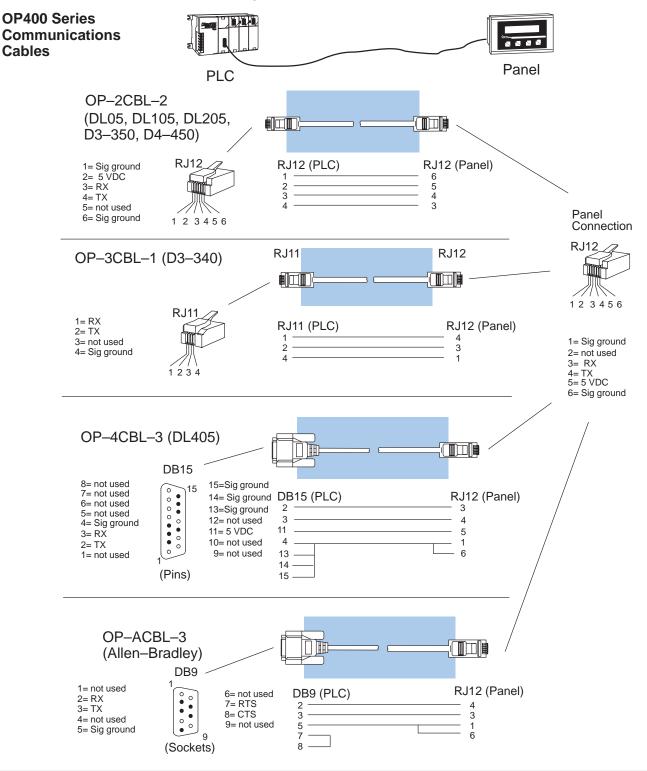
After configuration, connect the communications cable between the OP-panel and the PLC. Use the following table to select the proper communications cable.

Cables for OP400 Series OptiMate Panel-to-PLC Connections						
Family	CPU (or other device)	Port	Cable			
<i>Direct</i> LOGIC [™] DL05	D0–05xx	Ports 1 and 2	OP-2CBL-2			
<i>Direct</i> LOGIC [™] DL105	F1–130	Only one	OP-2CBL-2			
<i>Direct</i> LOGIC [™] DL205	D2–230	Only one	OP-2CBL-2			
	D2–240	Top port	OP-2CBL-2			
		Bottom port	OP-2CBL-2			
	D2–250	Top port	OP-2CBL-2			
		Bottom port	* (see note below)			
	D2–DCM (module)	Only port	* (see note below)			
<i>Direct</i> LOGIC [™] DL305	D3–330	Requires DCU	* (see note below)			
	D3-330P	Requires DCU	* (see note below)			
	D3–340	Top port	OP-3CBL-1			
		Bottom port	OP-3CBL-1			
	D3–350	Top port	OP-2CBL-2			
		Bottom port	* (see note below)			
<i>Direct</i> LOGIC [™] DL405	D4-430	Top port (15-pin)	OP-4CBL-3			
		Bottom port (25-pin)	* (see note below)			
	D4–440	Top port	OP-4CBL-3			
		Bottom port	* (see note below)			
	D4-450	Phone Jack	OP-2CBL-2			
		Top port (15-pin)	OP-4CBL-3			
		Bottom port (25-pin)	* (see note below)			
	D4–DCM (module)	Only port	* (see note below)			
	Slice I/O panels	Only one	OP-4CBL-3			
TI305 [™] / SIMATIC [®] TI305 [™]	325–07, PPX:325–07	Requires DCU	* (see note below)			
	330–37, PPX:330–37	Requires DCU	* (see note below)			
	325S–07 (or 325 w/ Stage Kt)	Requires DCU	* (see note below)			
	330S-37, PPX:330S-37	Requires DCU	* (see note below)			
	335–37, PPX:335–37	Phone Jacks	OP-3CBL-1			
		If DCU is used	* (see note below)			
TI405™ / SIMATIC® TI405™	425-CPU, PPX:425-CPU	Only one	OP-4CBL-3			
	PPX:430-CPU	Top port (15-pin)	OP-4CBL-3			
		Bottom port (25-pin)	* (see note below)			
	435–CPU, PPX:435–CPU	Top port (15-pin)	OP-4CBL-3			
		Bottom port (25-pin)	* (see note below)			
	Smart Slice [™] I/O panels	Only one	OP-4CBL-3			
Allen-Bradley [™] SLC 500	5/03, 5/04	Bottom port	OP-ACBL-3			
Allen-Bradley	MicroLogix	Only one	OP-ACBL-4			

* **Note:** Pre-assembled cables for connecting to these ports are not supplied by **Automationdirect.com**; however, you can use the cable pinout diagrams in the following section to make your own cables.

Communications Cable Details

The drawings on this page are for cables which **are** supplied by **Automationdirect.com**. Use this page if you need to make your own cables. We recommend using 22 AWG shielded cable.



The drawings on this page are for cables which **are not** supplied by **Automationdirect.com**. Use the drawings to make your own cable. We recommend using a 22 AWG or larger shielded cable.

