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DirectTouch Panel

Overview

The DP-M321 and DP-C321 are fully programmable touch panels, providing power and flexibility through a rich set of features. The back-lit LCD display is available in either monochrome (DP-M321) or color (DP-C321). The ***Direct***Touch Panel is configured using the ScreenCreator software. The software is a graphics editor with built-in panel parts such as number keypads, push-buttons, indicator lights, meters and graphs.



Features

- 64 pre-built parts: keypads, meters, graphs and number, text and time display fields, etc.
- Separate Compile and Download functions
- 5.7 inch display
- Floating Toolbars: Standard, Drawing, Control and Part
- Build custom panel parts for your specific applications
- Part Libraries: for custom and built-in parts
- Snap Grid
- Fast Compile and Download
- Windows 95/98/2000/NT compatible
- 1,048 pre-drawn ISO symbols to use in building new parts
- Upload from the Panel
- Up to 1,024 screens limited by 1Mb of screen data (typical screens are 1 to 3 K)
- Built-in Battery-backed Clock/Calendar
- Two-port Communication: RS232 and RS422 for PC and PLC at the same time (with certain PLCs)
- Communicate with multiple ***Direct***Logic PLCs (RS422)
- Built-in Fault (Alarm) Screens
- Built-in Keypads: 10-key for numbers and keyboard for text
- Screen Password Protection
- 16-level Undo and Redo
- Import and Edit Bitmaps

Specification	*Direct*Touch Panel Model	
	6" Monochrome DP-M321	***6" Color DP-C321***
Display Type	Backlit LCD (Blue and Gray)	Backlit LCD 16/256
Display Size	5.7" diagonal	5.7" diagonal
Resolution	320 x 240	320 x 240
Display Brightness	140 nits	
Touch Screen	192 resistive touch cells (16x12)	192 resistive touch cells (16x12)
Service Power	24VDC (20.5-28.8VDC operating range)	
Power Consumption	14 Watts @ 24VDC	
Enclosure	IEC standard IP65F (NEMA 4)	
Agency Approval	UL,CUL,CE	
Operating Temperature	0° to 50° C (32 to 122°F)	
Storage Temperature	-10° to 60° C (14 to +140°F)	
Humidity	15-85% R.H. (non-condensing)	
Withstand Voltage	1000kVDC (1 minute), between power supply and protective ground (FG)	
Vibration	5 to 55Hz 2G for 2 hours in the X, Y, and X axis	
Shock	10G for under 12ms in the X, Y, and Z axis	
User Memory	512K System Ram Memory	
	1 Mb Screen Data Memory	
Number of Screens	Up to 1024 limited by memory	
Real Time CLock	Standard	
Serial Communication	1 - RS-232, 1 - RS422	
Dimensions	5.906"x7.402"x1.85" (150x188x47 mm)	
Weight	1.4 lbs	

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Cables

Regardless of which PLC you are using, you will need two cables:

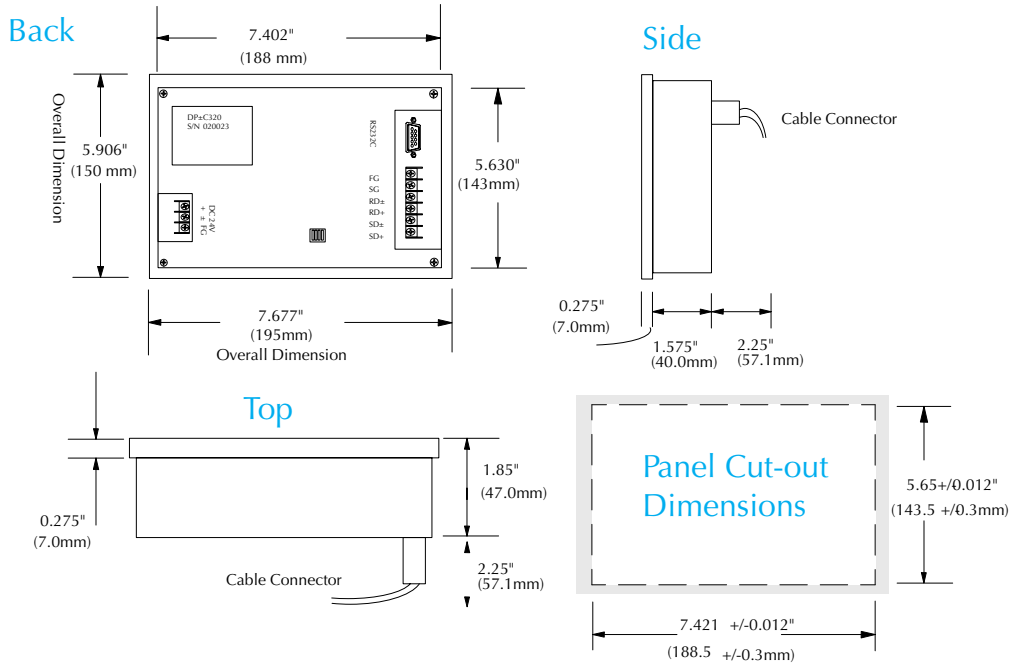
- **DP-PGMCBL:** This cable is used to configure and program the panel. This is a 9-pin female to 9-pin male cable that connects your personal computer to the ***Direct***Touch Panel.
- **PLC Cable:** You will also need the appropriate cable to connect your PLC to the ***Direct***Touch Panel. Use the chart shown to the right to choose the correct communications cable.

Cables for *Direct*Touch Panel-to-PLC Connections

Family	PLC (or other device)	Port	Cable
DirectLOGIC DL05/DL105	DL05: D0-05 DL105: F1-130	DL05: both DL105: only one	DP-2CBL-A
DirectLOGIC DL205	D2-230	Only one	DP-2CBL-A
	D2-240	Top port	DP-2CBL-A
		Bottom port	DP-2CBL-A
	D2-250	Top port	DP-2CBL-1
		Bottom port	DP-DSCBL-2
	D2-DCM (module)	Only one	DP-3CBL-2
DirectLOGIC DL305	D3-330/330P	Requires DCU*	DP-3CBL-2
	D3-340	Top port	DP-3CBL
		Bottom port	DP-3CBL
	D3-350	Top port	DP-2CBL
		Bottom port	DP-3CBL-2
DirectLOGIC DL405	D4-430	Top port (15-pin)	DP-4CBL
		Bottom port (25-pin)	DP-3CBL-2
	D4-440	Top port	DP-4CBL
		Bottom port	DP-3CBL-2
	D4-450	Phone Jack	DP-2CBL-A
		Top port (15-pin)	DP-4CBL
		Bottom port (25-pin)	DP-3CBL-2
	D4-DCM (module)	Only one	DP-3CBL-2
Allen-Bradley SLC 500	5/03, 5/04 Micrologix 1000/1500	Bottom port	DP-ABCBL-1 DP-ABCBL-2

Dimensions and Installation

It is important to understand the installation requirements for operator interfaces. Sometimes the size alone can dictate your choice of unit. This is especially true with respect to the depth of the unit. Please make sure you consider the space required for proper access to cables, power wiring, etc. Also, you may need to consider the environmental requirements, agency approvals, etc. for your application.



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