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PanelView Standard Operator Terminals











User Manual

(Catalog Numbers PV300 Micro, PV300, PV550, PV600, PV900, PV1000, PV1400)

ALLEN-BRADLEY • ROCKWELL SOFTWARE Rockwell Automation

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Important User Information

Solid state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (publication SGI-1.1 available from your local Rockwell Automation sales office or online at http://literature.rockwellautomation.com) describes some important differences between solid state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

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The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

WARNING 	Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.
IMPORTANT	Identifies information that is critical for successful application and understanding of the product.
ATTENTION 	Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence
SHOCK HAZARD 	Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.
BURN HAZARD 	Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.

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The information below summarizes the changes to this manual since the last publication.

To help you find new and updated information in this release of the manual, we have included change bars as shown to the right of this paragraph.

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Updated list of supported memory cards.	105
Added information on the proper placement of the sealing gasket.	136 143 150 158 167 173
Added information on airborne contaminants for the PanelView 300 terminal.	235
Added EU Battery Directive to the list of agency certifications.	248
Added information on battery replacement and disposal.	271

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Objectives

Read this preface to familiarize yourself with the rest of this manual.

- Intended audience
- Conventions used
- Terminology
- Installing PanelView terminals
- European Union Directive Compliance
- Related publications
- Technical support

Intended Audience

No special knowledge is required to understand this manual or operate the PanelView terminals. Before running an application, you must know the functions of all screens and screen objects. This information is available from the application designer.

Equipment installers must be familiar with standard panel installation techniques.

Conventions

The manual uses these conventions:

- For specific PanelView terminals, PanelView is replaced with the PV abbreviation. For example: PV1000 refers to the PanelView 1000 terminal.
- PanelView terminal refers to any one of the PanelView terminals.

Terminology

This manual contains some terms that may be unfamiliar.

Use the Glossary on page 273 of this manual for assistance.

Installing PanelView Terminals

Each terminal is shipped with installation instructions and a panel cutout. Please follow these instructions when installing your PanelView terminal in a panel or enclosure.

European Union Directive Compliance

Refer to Appendix C for details on installing the PanelView terminals in industrial environments requiring compliance with European Union Directives.

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Additional Resources

Refer to the extensive online help for the PanelBuilder32 Software or the following publications if necessary.

Resource	Description
PanelBuilder32 Software Getting Results Manual, publication 2711-GR003	Information about using PanelBuilder32 software
PanelBuilder32 Quick Start Manual, publication 2711-QS003	Information about starting PanelBuilder32 software
WinPFT File Transfer Utility, publication 2711-TD006	Information about the WinPFT file transfer utility
PROFIBUS DP Communication for PanelView Terminals, publication 2711-6.3	Information about PROFIBUS DP communication for PanelView terminals
Modbus Communication for PanelView Terminals, publication 2711-6.9	Information about Modbus communication for PanelView terminals
Programmable Controller Wiring and Grounding Guidelines, publication 1770-4.1	Information on wiring and grounding
Data Highway/Data Highway Plus/Data Highway-485 Cable Installation Manual, publication 1770-6.2.2	Information about installing Data Highway/Data Highway Plus/Data Highway-485 cable

For information relating to your controller, refer to the appropriate manual.

Technical Support

If you have questions about the PanelView terminals or the PanelBuilder32 software, please refer to the online manuals or online help provided with the PanelBuilder32 installation CD. These publications are also available from the literature library at:

http://literature.rockwellautomation.com

Frequently Asked Questions
Documents on frequently asked questions are available at:

http://www.rockwellautomation.com/knowledgebase

Software and Firmware Upgrades

To receive software updates (software serial number required) and firmware upgrades for your PanelView terminal:

- locate on PanelBuilder32 installation CD.
- call Rockwell Software at 1-440-646-7700 or fax 1-440-646-7701.
- access www.software.rockwell.com.

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Terminal Overview

Chapter Objectives

This chapter gives an overview of the PanelView Operator Terminals.

- Intended uses
- Terminal types and features
- Applications
- Configuration mode
- Terminal messages
- Printing
- Accessories and replacement parts

Intended Uses

You can use the PanelView operator terminals for a wide variety of machine control and monitoring applications.

ATTENTION



Do not use a PanelView terminal for emergency stops or other controls critical to the safety of personnel or equipment. Use separate hardwired operator interface devices that do not depend on solid state electronics. See the inside front cover of this manual for guidelines.

Terminal Types

PanelView terminals are available in a variety of options.

- Display size and type (monochrome, grayscale, color)
- Operator input (touch screen or keypad)
- Communication port (DH-485, RS-232, remote I/O, DH+, ControlNet, DeviceNet, Ethernet, EtherNet/IP, DF1)
- RS-232 printer port support

In addition, some terminals are available with:

- AC or DC power (L1 at the end of a catalog number indicates a DC terminal, for example, 2711-B5A1L1, or -T9C1L1).
- stainless steel bezel available on PanelView 550 keypad or keypad & touch terminals.

Contact your Allen-Bradley representative for availability.

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Color and Grayscale Terminals

Color terminals support a fixed palette of 32 standard EGA colors. Grayscale terminals support a fixed palette of four colors (shades of gray). All color in an application is defined when the application is created. Colors are not selectable at the terminal.

PanelView 300 Monochrome Terminals

The PanelView 300 terminal is only available with 24V DC input power.

Operator Input	Communication Port				Printer Port RS-232	Catalog Number
	DH-485	RS-232 (DH-485)	DeviceNet	RS-232 (DF1)		
Keypad	x					2711-K3A2L1
		x				2711-K3A5L1
			x		x	2711-K3A10L1
				x		2711-K3A17L1

PanelView 300 Micro Monochrome Terminals

The PanelView 300 Micro terminal is available only with 24V DC input power and does not have a printer port. The PV300 Micro terminal contains a single RS-232 communication port which supports either DF1 or DH485 communication protocols as specified in the table below.

Operator Input	Communication Port		Catalog Number
	DH-485	DF1	
Keypad	x		2711-M3A19L1
		x	2711-M3A18L1

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PanelView 550 Monochrome Terminals

The touch screen version of the PanelView 550 terminal is available only with 24V DC power. The L1 in the catalog number indicates DC power.

Operator Input	Communication Port								Printer Port RS-232	Catalog Number(1)
	RIO	DH-485	RS-232 (DH-485)	DH+	DeviceNet	ControlNet	RS-232 (DF1)	Ethernet		
Touch Screen and Keypad	x								x	2711-B5A1
		x								2711-B5A2
		x							x	2711-B5A3
			x							2711-B5A5
				x					x	2711-B5A8
			x						x	2711-B5A9
					x				x	2711-B5A10
						x			x	2711-B5A15
							x		x	2711-B5A16
								x	x	2711-B5A20
Keypad	x								x	2711-K5A1
		x								2711-K5A2
		x							x	2711-K5A3
			x							2711-K5A5
				x					x	2711-K5A8
			x						x	2711-K5A9
					x				x	2711-K5A10
						x			x	2711-K5A15
							x		x	2711-K5A16
								x	x	2711-K5A20
Touch Screen (24V DC only)	x								x	2711-T5A1L1
		x								2711-T5A2L1
		x							x	2711-T5A3L1
			x							2711-T5A5L1
				x					x	2711-T5A8L1
			x						x	2711-T5A9L1
					x				x	2711-T5A10L1
						x			x	2711-T5A15L1
							x		x	2711-T5A16L1
								x	x	2711-T5A20L1

(1) Add L1 to the end of the catalog number for 24V DC power.
Add L2 to the end of a catalog number for stainless steel. Not available for the touch screen terminals.
Add L3 to the end of a catalog number for 24V DC power and stainless steel. Stainless steel is not available for the touch screen terminals.

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PanelView 600 Color Terminals

Operator Input	Communication Port								Printer Port RS-232	Catalog Number(1)
	RIO	DH-485	RS-232 (DH-485)	DH+	DeviceNet	ControlNet	RS-232 (DF1)	Ethernet		
Touch Screen and Keypad	x								x	2711-B6C1
		x								2711-B6C2
		x							x	2711-B6C3
			x							2711-B6C5
				x					x	2711-B6C8
			x						x	2711-B6C9
					x				x	2711-B6C10
						x			x	2711-B6C15
							x		x	2711-B6C16
								x	x	2711-B6C20
Keypad	x								x	2711-K6C1
		x								2711-K6C2
		x							x	2711-K6C3
			x							2711-K6C5
				x					x	2711-K6C8
			x						x	2711-K6C9
					x				x	2711-K6C10
						x			x	2711-K6C15
							x		x	2711-K6C16
								x	x	2711-K6C20
Touch Screen (24V DC only)	x								x	2711-T6C1L1
		x								2711-T6C2L1
		x							x	2711-T6C3L1
			x							2711-T6C5L1
				x					x	2711-T6C8L1
			x						x	2711-T6C9L1
					x				x	2711-T6C10L1
						x			x	2711-T6C15L1
							x		x	2711-T6C16L1
								x	x	2711-T6C20L1

(1) Add L1 to the end of the catalog number for 24V DC power.

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PanelView 900 Monochrome Terminals

These terminals are no longer available for purchase.

Operator Input	Communication Port							Printer Port RS-232	Catalog Number[1]
	RIO	DH-485	RS-232 (DH-485)	DH+	DeviceNet	ControlNet	RS-232 (DF1)		
Touch Screen	x							x	2711-T9A1
		x							2711-T9A2
		x						x	2711-T9A3
			x						2711-T9A5
				x				x	2711-T9A8
			x					x	2711-T9A9
					x			x	2711-T9A10
						x		x	2711-T9A15
							x	x	2711-T9A16
Keypad	x							x	2711-K9A1
		x							2711-K9A2
		x						x	2711-K9A3
			x						2711-K9A5
				x				x	2711-K9A8
			x					x	2711-K9A9
					x			x	2711-K9A10
						x		x	2711-K9A15
							x	x	2711-K9A16

(1) Add L1 to the end of the catalog number for 24V DC power.

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PanelView 900 Color Terminals

These terminals are no longer available for purchase.

Operator Input	Communication Port								Printer Port RS-232	Catalog Number(1)
	RIO	DH-485	RS-232 (DH-485)	DH+	DeviceNet	ControlNet	RS-232 (DF1)	Ethernet		
Touch Screen	x								x	2711-T9C1
		x							x	2711-T9C3
				x					x	2711-T9C8
			x						x	2711-T9C9
					x				x	2711-T9C10
						x			x	2711-T9C15
							x		x	2711-T9C16
								x	x	2711-T9C20
Keypad	x								x	2711-K9C1
		x							x	2711-K9C3
				x					x	2711-K9C8
			x						x	2711-K9C9
					x				x	2711-K9C10
						x			x	2711-K9C15
							x		x	2711-K9C16
								x	x	2711-K9C20

(1) Add L1 to the end of the catalog number for 24V DC power.

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PanelView 1000 Color Terminals

Operator Input	Communication Port								Printer Port RS-232	Catalog Number(1)
	RIO	DH-485	RS-232 (DH-485)	DH+	DeviceNet	ControlNet	RS-232 (DF1)	Ethernet		
Touch Screen	x								x	2711-T10C1
		x							x	2711-T10C3
				x					x	2711-T10C8
			x						x	2711-T10C9
					x				x	2711-T10C10
						x			x	2711-T10C15
							x		x	2711-T10C16
								x	x	2711-T10C20
Keypad	x								x	2711-K10C1
		x							x	2711-K10C3
				x					x	2711-K10C8
			x						x	2711-K10C9
					x				x	2711-K10C10
						x			x	2711-K10C15
							x		x	2711-K10C16
								x	x	2711-K10C20

(1) Add L1 to the end of the catalog number for 24V DC power.

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PanelView 1000 Grayscale Terminals

Operator Input	Communication Port								Printer Port RS-232	Catalog Number(1)
	RIO	DH-485	RS-232 (DH-485)	DH+	DeviceNet	ControlNet	RS-232 (DF1)	Ethernet		
Touch Screen	x								x	2711-T10G1
		x							x	2711-T10G3
				x					x	2711-T10G8
			x						x	2711-T10G9
					x				x	2711-T10G10
						x			x	2711-T10G15
							x		x	2711-T10G16
								x	x	2711-T10G20
Keypad	x								x	2711-K10G1
		x							x	2711-K10G3
				x					x	2711-K10G8
			x						x	2711-K10G9
					x				x	2711-K10G10
						x			x	2711-K10G15
							x		x	2711-K10G16
								x	x	2711-K10G20

(1) Add L1 to the end of the catalog number for 24V DC power.

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PanelView 1400 Color Terminals

These terminals are no longer available for purchase.

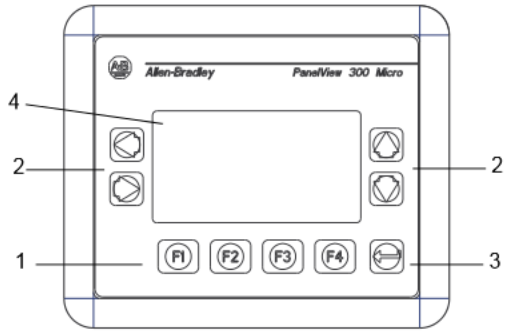
Operator Input	Communication Port								Printer Port RS-232	Catalog Number
	RIO	DH-485	RS-232 (DH-485)	DH+	DeviceNet	ControlNet	RS-232 (DF1)	Ethernet		
Touch Screen	x								x	2711-T14C1
		x							x	2711-T14C3
				x					x	2711-T14C8
			x						x	2711-T14C9
					x				x	2711-T14C10
						x			x	2711-T14C15
							x		x	2711-T14C16
									x	2711-T14C20
Keypad	x							x	x	2711-K14C1
		x							x	2711-K14C3
				x					x	2711-K14C8
			x						x	2711-K14C9
					x				x	2711-K14C10
						x			x	2711-K14C15
							x		x	2711-K14C16
								x	x	2711-K14C20

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PanelView 300 Micro Terminal Features

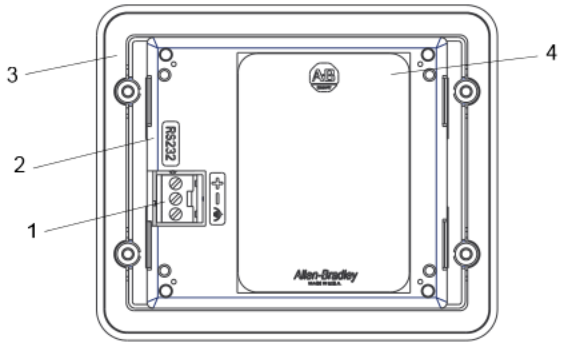
This section defines features of the PanelView 300 Micro keypad terminal.

PanelView 300 Micro Terminal Features (front)



#	Feature	Description
1	Function keys (F1 F4)	Use the function keys to initiate functions on the terminal display.
2	Cursor keys	Use the cursor keys (left, right, up, down) as programmed function keys in addition to the F1 F4 function keys or to move the cursor in displayed lists, to select a numeric entry object, to enter configuration mode, or to enter/modify numeric and ascii data.
3	↵	Stores an entered value.
4	Keypad terminal display	Liquid crystal display with integral backlight. Displays application text, controls, graphics.

PanelView 300 Micro Terminal Features (back)



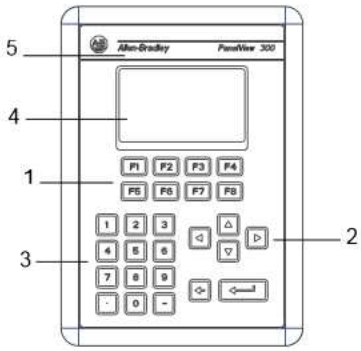
#	Feature	Description
1	Power connection terminals	Connects to a 24V DC (11-30V DC) external power source.
2	DF1 or DH-485 (RS232) communication port	Connects to an SLC, PLC, or MicroLogix controller by using an RS-232 connection. Also used for downloading applications directly from a computer.
3	Sealing gasket	Seals the front of the terminal to an enclosure or panel.
4	Nameplate label	Provides product information.

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PanelView 300 Terminal Features

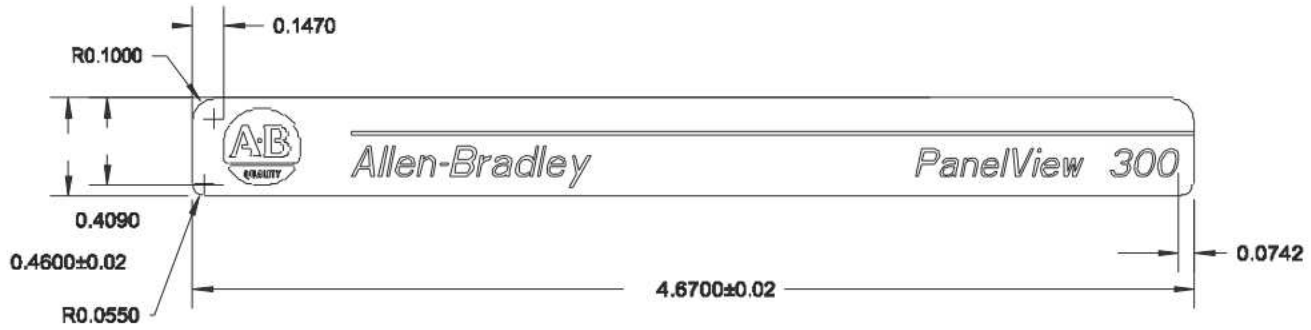
This section defines features of the PanelView 300 keypad terminal.

PanelView 300 Terminal Features (front)



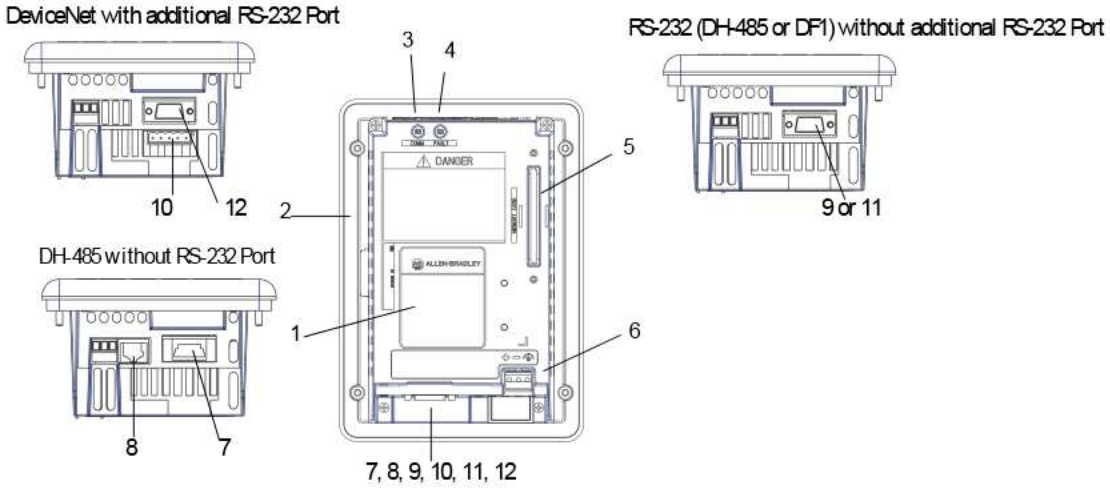
#	Feature	Description
1	Function keys (F1 F8)	Use the function keys to initiate functions on the terminal display. These keys may have custom legends.
2	Cursor keys	Use the up or down cursor keys to move the cursor up or down in a list or to increment/decrement values. Use the left or right cursor keys to select an object with an indicator bar, or to enter configuration mode.
3	Numeric entry keys	0 9 - Enters numeric values. . Enters a decimal point. - Enters a negative value. Clears entered digits or cancels the scratchpad. Stores an entered value.
4	Keypad terminal display	Initiate the function of a displayed object, such as an ON or OFF push button, by pressing the corresponding function key (F1...F8).
5	OEM label option (series B and later)	Contact Rockwell Automation or your authorized distributor for custom label information.

The following illustration shows the dimensions for the OEM label.



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PanelView 300 Terminal Features (back)



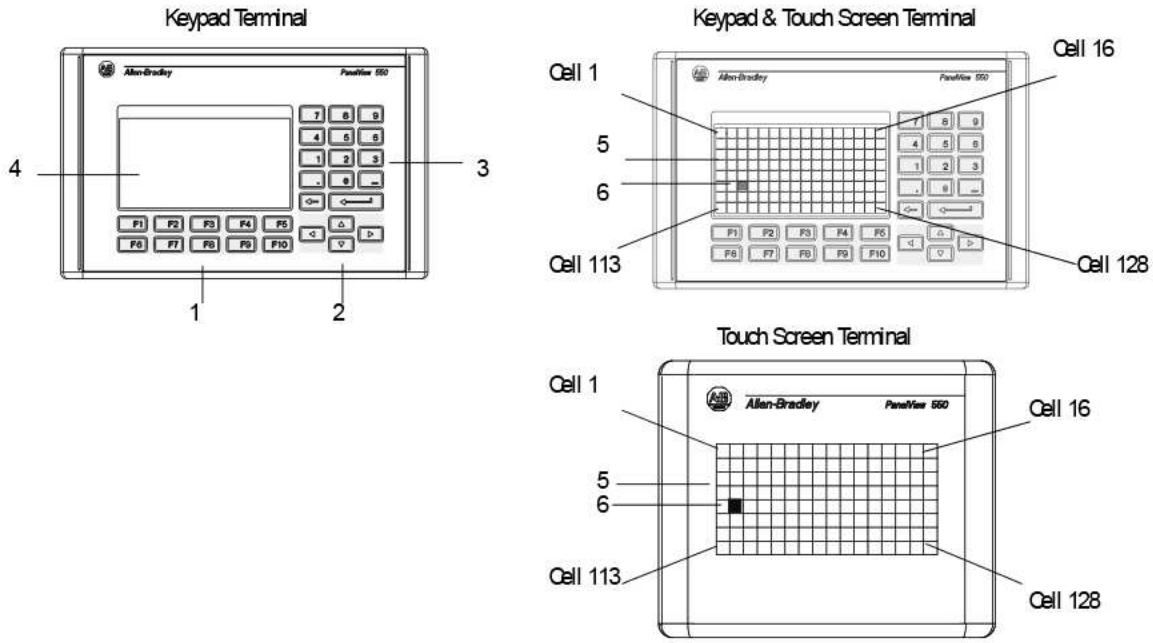
#	Feature	Description
1	Nameplate label	Provides product information.
2	Sealing gasket	Seals the front of the terminal to an enclosure or panel.
3	COMM Status indicator (green)	Indicates when communication is occurring.
4	FAULT Status indicator (red)	Indicates firmware or hardware faults.
5	Memory card slot	Accepts a memory card which stores applications.
6	Power connection terminals	Connects to an external 24V DC power source (18 32V DC).
7	DH-485 communication port	Connects to an SLC or MicroLogix controller, DH-485 network, or Wallmount Power Supply (Cat. No. 1747-NP1).
8	DH-485 programming connector	Connects to a Personal Computer Interface Converter (Cat. No. 1747-PIC) for transferring applications. Also connects to an SLC programmer, such as the Hand-held Terminal (Cat. No. 1747-PT1).
9	RS-232 (DH-485) communication port	Connects to the Channel 0 port of an SLC 5/03, SLC 5/04, or SLC 5/05 controller for point-to-point DH-485 communication. Connects to a MicroLogix controller through an AIC+ Link Coupler. Also connects to the RS-232 serial port of a computer for transferring applications.
10	DeviceNet connector	Connects to a DeviceNet network.
11	RS-232 (DF1) communication port	Connects to a PLC, SLC, or MicroLogix controller with a DF1 port. This port also connects to the RS-232 port of a computer.
12	RS-232 Printer/File transfer port	Connects to a printer (K3A10L1 version only). On a DeviceNet terminal, this port also connects to the RS-232 port of a computer for transferring applications.

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PanelView 550 Terminal Features

This section defines features of the PanelView 550 terminals.

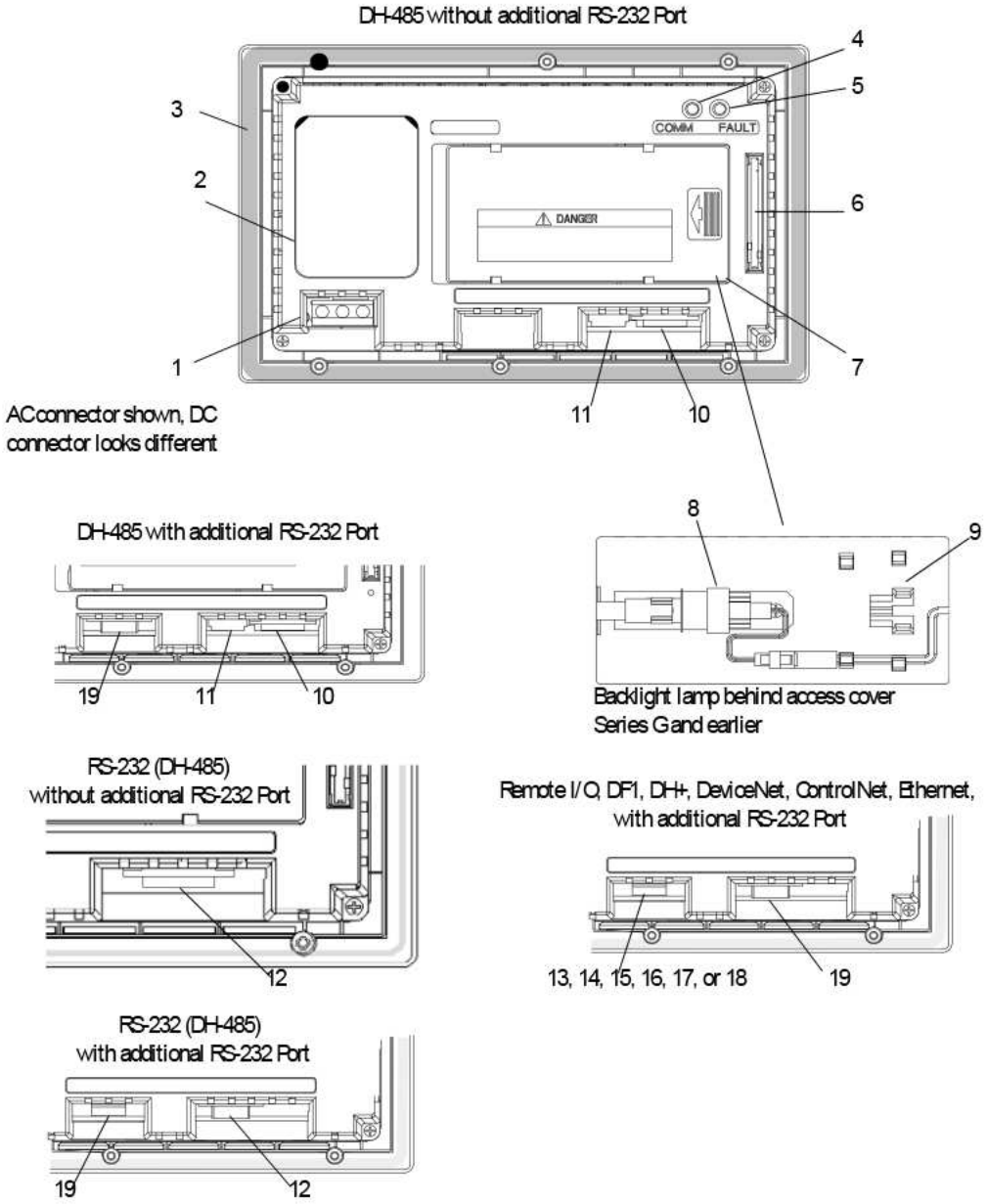
PanelView 550 Terminal Features (front)



#	Feature	Description
1	Function Keys (F1 F10)	On keypad terminals, use the function keys to initiate functions on the terminal display. These keys may have custom legends. On keypad and touch screen terminals, you can initiate functions by using the function keys and/or touch screen objects.
2	Cursor Keys	Use the cursor keys to move the cursor in displayed lists, to select a numeric entry object, or to enter configuration mode.
3	Numeric Entry Keys	0 9 - Enters numeric values. . Enters a decimal point. - Enters a negative value. Clears entered digits or cancels the scratchpad. Stores an entered value.
4	Keypad Terminal Display	On keypad terminals, initiate the function of a displayed object, such as an ON or OFF push button, by pressing a function key (F1 F10).
5	Touch Screen Terminal Display	On touch screen or keypad & touch screen terminals, initiate the function of a displayed object, such as an ON or OFF push button, by touching the screen object. Each interactive screen object occupies one or more of 128 cells. On keypad and touch screen terminals, you can initiate functions by using the function keys and/or touch screen objects.
6	Touch Cells (Touch Screen terminal)	The 128 touch cells (16 columns x 8 rows) let you initiate functions by touching the screen. Interactive screen objects are aligned with touch cells when the application is created.

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PanelView 550 Keypad or Keypad and Touch Screen Terminals (back)



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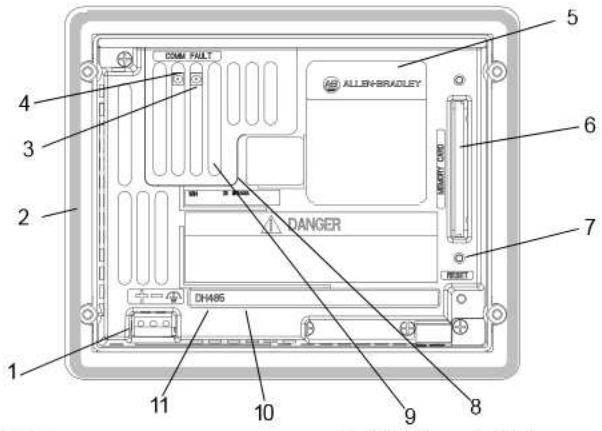
#	Feature	Description
1	Power Connection Terminals	Connects to external power source.
2	Nameplate Label	Provides product information.
3	Sealing Gasket	Seals the front of the terminal to an enclosure or panel.
4	COMM Status (Green) Indicator	Indicates when communication is occurring.
5	FAULT Status (Red) Indicator	Indicates firmware or hardware faults.
6	Memory Card Slot	Accepts a memory card which stores applications.
7	Access Cover	Provides access to the replaceable backlight lamp.
8	Backlight Lamp	Light source for the display backlight. Light transmits through a fiber-optic bundle to the back of the LCD display.(1)
9	Spare Bulb Holder	Stores a spare backlight lamp.(1)
10	DH-485 Communication Port	Connects to an SLC or MicroLogix controller, DH-485 network, or Wallmount Power Supply (Cat. No. 1747-NP1).
11	DH-485 Programming Connector	Connects to a Personal Computer Interface Converter (Cat. No. 1747-PIC) for transferring applications. Also connects to an SLC programmer, such as the Hand-held Terminal (Cat. No. 1747-PT1).
12	RS-232 (DH-485) Communication Port	Connects to the Channel 0 port of an SLC 5/03, SLC 5/04, or SLC 5/05 controller for point-to-point DH-485 communication. Connects to a MicroLogix controller through an AIC+ Link Coupler. Also connects to the RS-232 serial port of a computer for transferring applications.
13	Remote I/O Port	Connects to a scanner or sub-scanner on a remote I/O network.
14	DH+ Communication Port	Connects to a PLC-5, SLC 5/04, or ControlLogix controller on a DH+ link.
15	DeviceNet Connector	Connects to a DeviceNet network.
16	ControlNet Connector	Connects to a ControlLogix controller (with 1756-CNB module) or PLC-5 on a ControlNet network.
17	RS-232 (DF1) Communication Port	Connects to a PLC, SLC, or MicroLogix controller with a DF1 port.
18	Ethernet Connector	Connects to a PLC-5E or SLC 5/05 controller, or a ControlLogix, MicroLogix, FlexLogix, or CompactLogix controller (with appropriate bridge module) on an EtherNet/IP network.
19	RS-232 Printer/ File Transfer Port	Connects to a printer. On remote I/O, DH+, DF1, DeviceNet, EtherNet/IP, or ControlNet terminals, this port also connects to the RS-232 port of a computer for transferring applications. The RS-232 port on the DH-485 or RS-232 (DH-485) terminal is used to connect a printer but not for file transfers.

(1) Series H and later PanelView 550 Keypad and Keypad Touch Terminals have an integrated LED backlight. This backlight is non-replaceable.

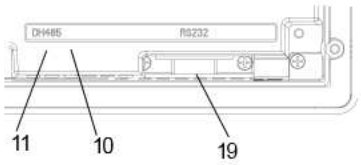
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PanelView 550 Touch Screen Terminal Features (back)

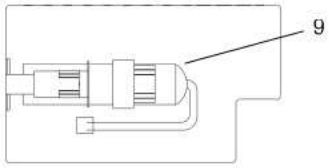
DH-485 without additional RS-232 Port



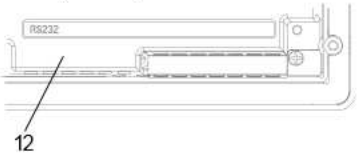
DH-485 with RS-232 Port



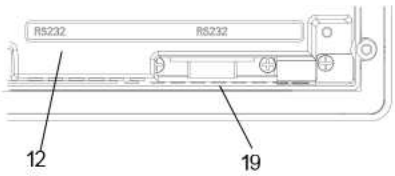
Backlight lamp behind access cover
Series A only



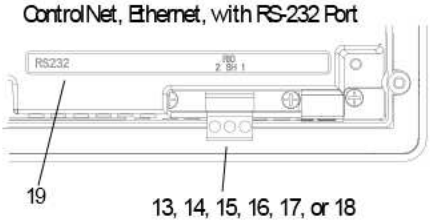
RS-232 (DH-485) without additional RS-232 Port



RS-232 (DH-485) with additional RS-232 Port



Remote I/O, DF1, DH+, DeviceNet,
ControlNet, Ethernet, with RS-232 Port



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#	Feature	Description
1	Power Connection Terminals	Connects to external DC power source.
2	Sealing Gasket	Seals the front of the terminal to an enclosure or panel.
3	FAULT Status (Red) Indicator	Indicates firmware or hardware faults.
4	COMM Status (Green) Indicator	Indicates when communication is occurring.
5	Nameplate Label	Provides product information.
6	Memory Card Slot	Accepts a memory card which stores applications.
7	Reset Button	Resets the terminal.
8	Access Cover	Provides access to the replaceable backlight lamp.(1)
9	Backlight Lamp	Light source for the display backlight. (1)
10	DH-485 Communication Port	Connects to an SLC or MicroLogix controller, DH-485 network, or Wallmount Power Supply (Cat. No. 1747-NP1).
11	DH-485 Programming Connector	Connects to a Personal Computer Interface Converter (Cat. No. 1747-PIC) for transferring applications. Also connects to an SLC programmer, such as the Hand-held Terminal (Cat. No. 1747-PT1).
12	RS-232 (DH-485) Communication Port	Connects to the Channel 0 port of an SLC 5/03, 5/04, or 5/05 for point-to-point DH-485 communication. Connects to a MicroLogix controller through an AIC+ Link Coupler. Also connects to the RS-232 serial port of a computer for transferring applications.
13	Remote I/O Port	Connects to a scanner or sub-scanner on a remote I/O network.
14	DH+ Communication Port	Connects to a PLC-5, SLC 5/04, or ControlLogix controller on a DH+ link.
15	DeviceNet Connector	Connects to a DeviceNet network.
16	ControlNet Connector	Connects to a ControlLogix controller (with 1756-CNB module) or PLC-5 on a ControlNet network.
17	RS-232 (DF1) Communication Port	Connects to a PLC, SLC, or MicroLogix controller with a DF1 port.
18	Ethernet Connector	Connects to a PLC-5E or SLC 5/05 controller, or a ControlLogix, MicroLogix, FlexLogix or CompactLogix (with appropriate bridge module) on an EtherNet/IP network.
19	RS-232 Printer/File Transfer Port	Connects to a printer. On remote I/O, DH+, DF1, DeviceNet, EtherNet/IP, or ControlNet terminals, this port also connects to the RS-232 port of a computer for transferring applications. The RS-232 port on the DH-485 or RS-232 (DH-485) terminal is used to connect a printer but not for file transfers.

(1) Series B and later PanelView 550 Touch Terminals have an integrated LED backlight. This backlight is non-replaceable.

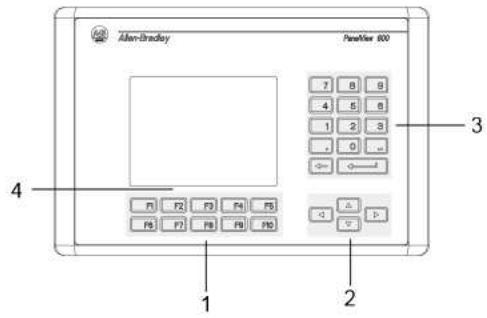
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PanelView 600 Terminal Features

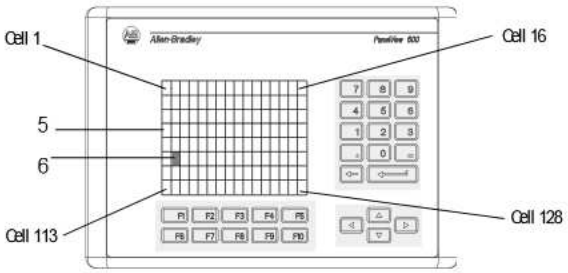
This section defines features of the PanelView 600 terminals.

PanelView 600 Terminal Features (front)

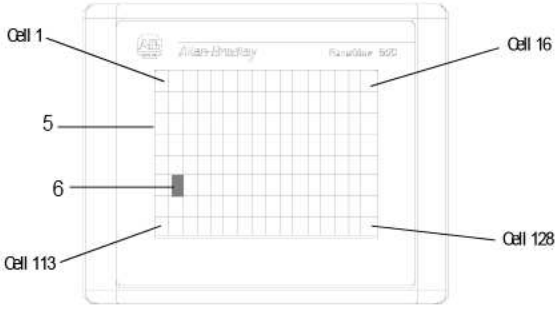
Keypad Terminal



Keypad & Touch Screen Terminal



Touch Screen Terminal



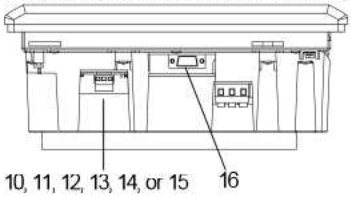
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#	Feature	Description
1	Function Keys (F1 F10)	Use the function keys on keypad terminals to initiate functions on the terminal display. These keys may have custom legends. On the keypad & touch screen terminals, you can initiate functions by using the function keys and/or touch screen objects.
2	Cursor Keys	Use the cursor keys to move the cursor in displayed lists, to select a numeric entry object, or to enter configuration mode.
3	Numeric Entry Keys	0 9 - Enters numeric values. . Enters a decimal point. - Enters a negative value. Clears entered digits or cancels the scratchpad. Stores an entered value.
4	Keypad Terminal Display	On keypad terminals, initiate the function of a displayed object, such as an ON or OFF push button, by pressing a function key (F1...F10).
5	Touch Screen Terminal Display	On keypad and touch screen terminals, initiate the function of a displayed object, such as an ON or OFF push button, by touching the screen object. Each interactive screen object occupies one or more of 128 cells. On touch screen and keypad terminals, you can initiate functions, by using the function keys and/or touch screen objects.
6	Touch Cells (Touch Screen terminal)	The 128 touch cells (16 columns x 8 rows) let you initiate functions by touching the screen. Interactive screen objects are aligned with touch cells when the application is created.

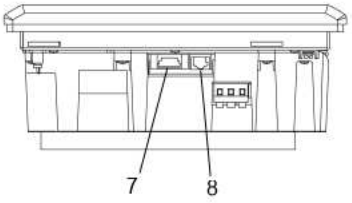
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PanelView 600 Keypad or Keypad & Touch Screen Terminal (back)

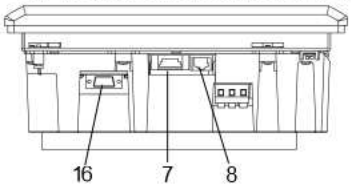
Remote I/O, DF1, DH+, DeviceNet, ControlNet, or Ethernet with additional RS-232 Port



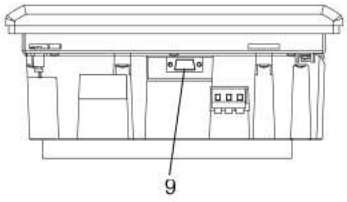
DH-485 without additional RS-232 Port

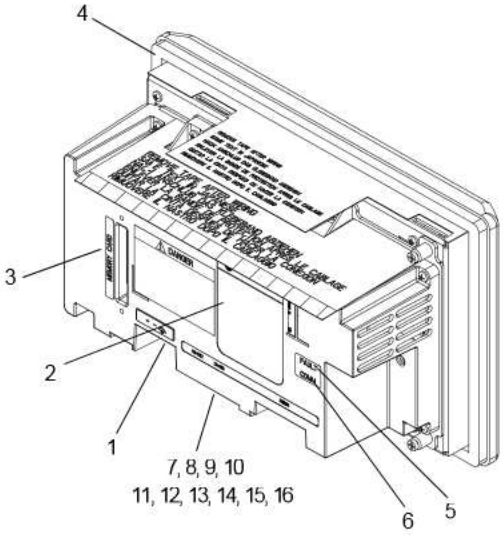


DH-485 with additional RS-232 Port

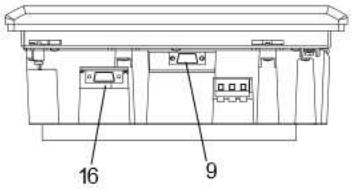


RS-232 (DH-485) without additional RS-232 Port





RS-232 (DH-485) with additional RS-232 Port



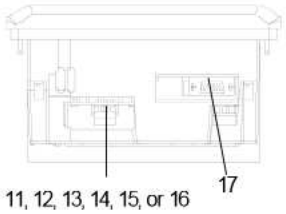
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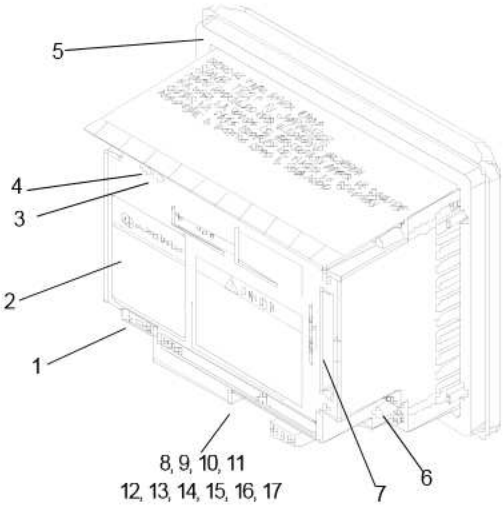
#	Feature	Description
1	Power Connection Terminals	Connects to external power source.
2	Nameplate Label	Provides product information.
3	Memory Card Slot	Accepts a memory card which stores applications.
4	Sealing Gasket	Seals the front of the terminal to an enclosure or panel.
5	FAULT Status (Red) Indicator	Indicates firmware or hardware faults.
6	COMM Status (Green) Indicator	Indicates when communication is occurring.
7	DH-485 Communication Port	Connects to an SLC or MicroLogix controller, DH-485 network, or Wallmount Power Supply (Cat. No. 1747-NP1).
8	DH-485 Programming Connector	Connects to a Personal Computer Interface Converter (Cat. No. 1747-PIC) for transferring applications. Also connects to an SLC programmer, such as the Hand-held Terminal (Cat. No. 1747-PT1).
9	RS-232 (DH-485) Communication Port	Connects to the Channel 0 port of an SLC 5/03, 5/04, or 5/05 for point-to-point DH-485 communication. Connects to a MicroLogix controller through an AIC+ Link Coupler. Also connects to the RS-232 serial port of a computer for transferring applications.
10	Remote I/O Port	Connects to a scanner or sub-scanner on a remote I/O network.
11	DH+ Communication Port	Connects to a PLC-5, SLC 5/04, or ControlLogix controller on a DH+ link.
12	DeviceNet Connector	Connects to a DeviceNet network.
13	ControlNet Connector	Connects to a ControlLogix controller (with 1756-CNB module) or PLC-5 on a ControlNet network.
14	(RS-232) DF1 Communication Port	Connects to a PLC, SLC, or MicroLogix controller with a DF1 port.
15	Ethernet Connector	Connects to a PLC-5E or SLC 5/05 controller, or a ControlLogix, MicroLogix, FlexLogix, or CompactLogix (with appropriate bridge module) on an EtherNet/IP network.
16	RS-232 Printer/File Transfer Port	Connects to a printer. On remote I/O, DH+, DF1, DeviceNet, EtherNet/IP, or ControlNet terminals, this port also connects to the RS-232 port of a computer for transferring applications. The RS-232 port on the DH-485 or RS-232 (DH-485) terminal is used to connect a printer but not for file transfers.

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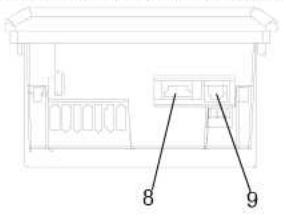
PanelView 600 Touch Screen Terminal Features (back)

Remote I/O, DF1, DH+, DeviceNet, ControlNet, or Ethernet with additional RS-232 Port

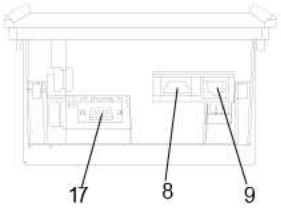




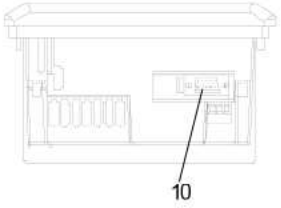
DH-485 without additional RS-232 Port



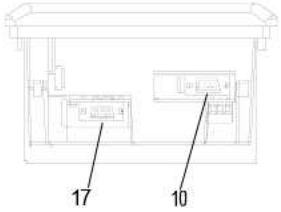
DH-485 with additional RS-232 Port



RS-232 (DH-485) without additional RS-232 Port



RS-232 (DH-485) with additional RS-232 Port



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#	Feature	Description
1	Power Connection Terminals	Connects to external power source.
2	Nameplate Label	Provides product information.
3	Fault Status (Red)	Indicates firmware or hardware faults.
4	COMM Status (Green)	Indicates when communication is occurring.
5	Sealing Gasket	Seals the front of the terminal to an enclosure or panel.
6	Reset Button	Resets the terminal.
7	Memory Card Slot	Accepts a memory card which stores applications.
8	DH-485 Communication Port	Connects to an SLC or MicroLogix controller, DH-485 network, or Wallmount Power Supply (Cat. No. 1747-NP1).
9	DH-485 Programming Connector	Connects to a Personal Computer Interface Converter (Cat. No. 1747-PIC) for transferring applications. Also connects to an SLC programmer, such as the Hand-held Terminal (Cat. No. 1747-PT1).
10	RS-232 (DH-485) Communication Port	Connects to the Channel 0 port of an SLC 5/03, 5/04, or 5/05 for point-to-point DH-485 communication. Connects to a MicroLogix controller through an AIC+ Link Coupler. Also connects to the RS-232 serial port of a computer for transferring applications.
11	Remote I/O Port	Connects to a scanner or sub-scanner on a remote I/O network.
12	DH+ Communication Port	Connects to a PLC-5, SLC 5/04, or ControlLogix controller on a DH+ link.
13	DeviceNet Connector	Connects to a DeviceNet network.
14	ControlNet Connector	Connects to a ControlLogix controller (with 1756-CNB module) or PLC-5 on a ControlNet network.
15	RS-232 (DF1) Communication Port	Connects to a PLC, SLC, or MicroLogix controller with a DF1 port.
16	Ethernet Connector	Connects to a PLC-5E or SLC 5/05 controller, or a ControlLogix, MicroLogix, FlexLogix, or CompactLogix (with appropriate bridge module) on an EtherNet/IP network.
17	RS-232 Printer/File Transfer Port	Connects to a printer. On remote I/O, DH+, DF1, DeviceNet, EtherNet/IP, or ControlNet terminals, this port also connects to the RS-232 port of a computer for transferring applications. The RS-232 port on the DH-485 or RS-232 (DH-485) terminal is used to connect a printer but not for file transfers.

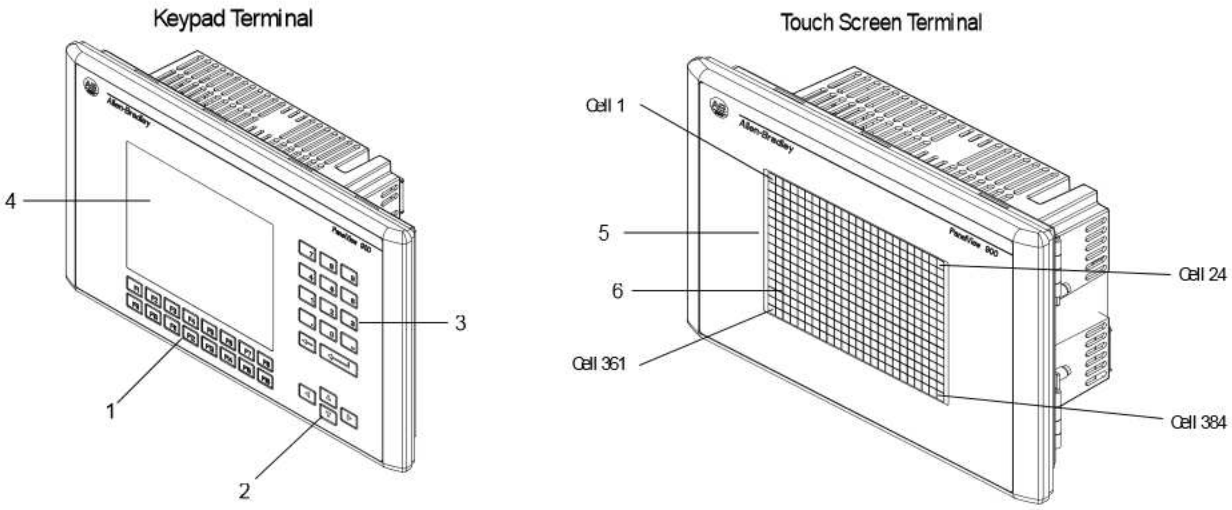
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PanelView 900/1000 Terminal Features

This section defines features of the PanelView 900 and 1000 terminals.

IMPORTANT PanelView 900 terminals are no longer available. Contact your local sales office or authorized Rockwell Automation Distributor for suitable substitutes.

PanelView 900/1000 Terminal Features (front)



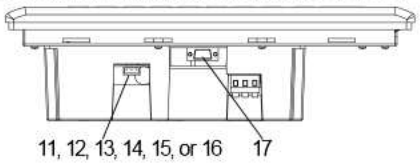
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#	Feature	Description
1	Function Keys (F1 F16)	Use the function keys on keypad terminals to initiate functions on the terminal display. These keys may have custom legends.
2	Cursor Keys	Use the cursor keys to move the cursor in displayed lists, to select a numeric entry object or to enter configuration mode.
3	Numeric Entry Keys	0 9 - Enters numeric values. . Enters a decimal point. - Enters a negative value. Clears entered digits or cancels the scratchpad. Stores an entered value.
4	Keypad Terminal Display	On keypad terminals, initiate the function of a displayed object, such as an ON or OFF push button, by pressing a function key (F1 F16).
5	Touch Screen Terminal Display	On touch screen terminals, initiate the function of a displayed object, such as an ON or OFF push button, by touching the screen object. Each interactive screen object occupies one or more of 384 cells.
6	Touch Cells (Touch Screen terminal)	The 384 touch cells (24 columns x 16 rows) let you initiate functions by touching the screen. Interactive screen objects are aligned with touch cells when the application is created.

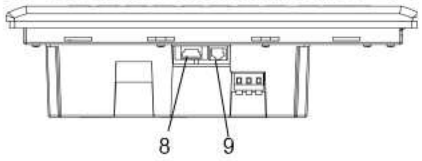
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PanelView 900/1000 Terminal Features (back)

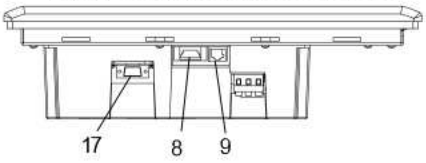
Remote I/O, DF1, DH+, DeviceNet, Ethernet, or ControlNet with additional RS-232 Port



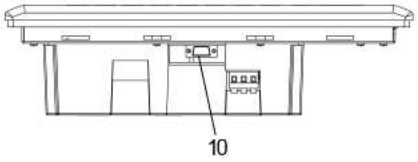
DH-485 Version without additional RS-232 Port



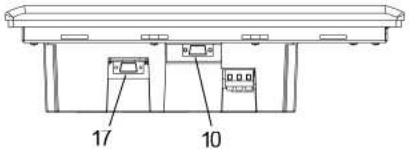
DH-485 with additional RS-232 Port

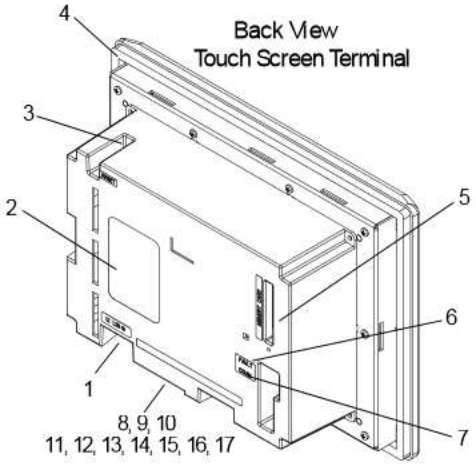


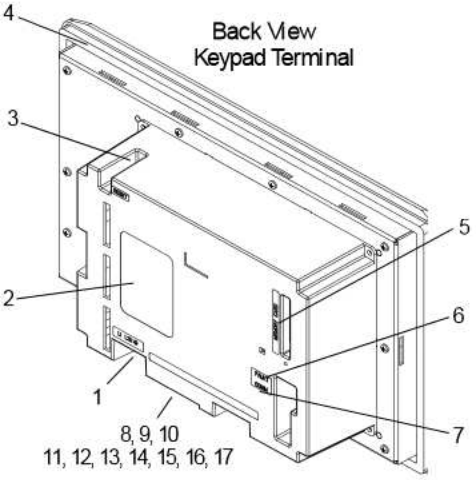
RS-232 (DH-485) without additional RS-232 Port



RS-232 (DH-485) with additional RS-232 Port







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#	Feature	Description
1	Power Connection Terminals	Connects to external power source.
2	Nameplate Label	Provides product information.
3	Reset Button	Resets the terminal.
4	Sealing Gasket	Seals the front of the terminal to an enclosure or panel.
5	Memory Card Slot	Accepts a memory card which stores applications.
6	FAULT Status (Red) Indicator	Indicates firmware or hardware faults.
7	COMM Status (Green) Indicator	Indicates when communication is occurring.
8	DH-485 Communication Port	Connects to an SLC or MicroLogix controller, DH-485 network, or Wallmount Power Supply (Cat. No. 1747-NP1).
9	DH-485 Programming Connector	Connects to a Personal Computer Interface Converter (Cat. No. 1747-PIC) for transferring applications. Also connects to an SLC programmer, such as the Hand-held Terminal (Cat. No. 1747-PT1).
10	RS-232 (DH-485) Communication Port	Connects to the Channel 0 port of an SLC 5/03, 5/04, or 5/05 for point-to-point DH-485 communication. Connects to a MicroLogix controller through an AIC+ Link Coupler. Also connects to the RS-232 serial port of a computer for transferring applications.
11	Remote I/O Port	Connects to a scanner or sub-scanner on a remote I/O network.
12	DH+ Communication Port	Connects to a PLC-5, SLC 5/04, or ControlLogix controller on a DH+ link.
13	DeviceNet Connector	Connects to a DeviceNet network.
14	ControlNet Connector	Connects to a ControlLogix controller (with 1756-CNB module) or PLC-5 on a ControlNet network.
15	RS-232 (DF1) Communication Port	Connects to a PLC, SLC, or MicroLogix controller with a DF1 port.
16	Ethernet Connector	Connects to a PLC-5E or SLC 5/05 controller, or a ControlLogix, MicroLogix, FlexLogix, or CompactLogix (with appropriate bridge module) on an EtherNet/IP network.
17	RS-232 Printer/File Transfer Port	Connects to a printer. On remote I/O, DH+, DF1, DeviceNet, EtherNet/IP, or ControlNet terminals, this port also connects to the RS-232 port of a computer for transferring applications. The RS-232 port on the DH-485 or RS-232 (DH-485) terminal is used to connect a printer but not for file transfers.

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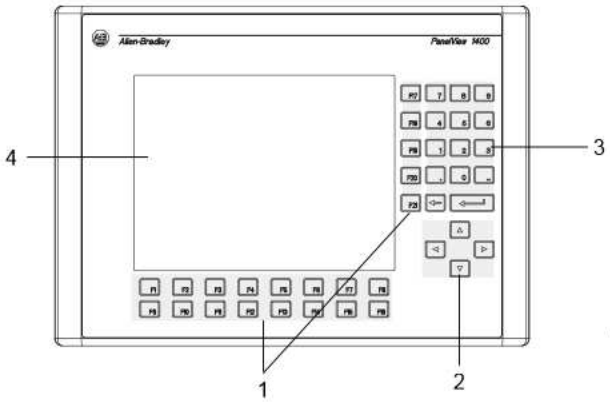
PanelView 1400 Terminal Features

This section defines features of the PanelView 1400 terminals.

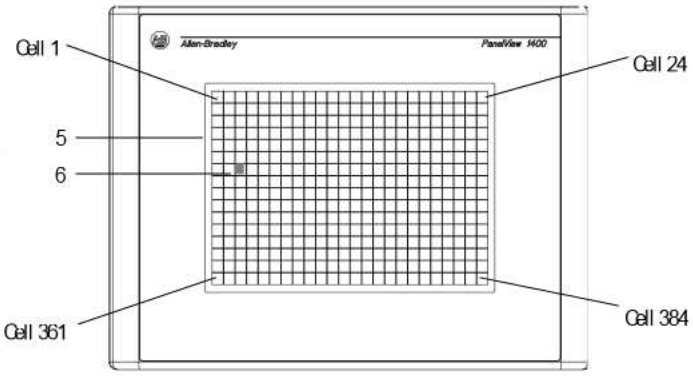
IMPORTANT PanelView 1400 terminals are no longer available. Contact your local sales office or authorized Rockwell Automation Distributor for suitable substitutes.

PanelView 1400 Terminal Features (front)

Keypad Terminal



Touch Screen Terminal



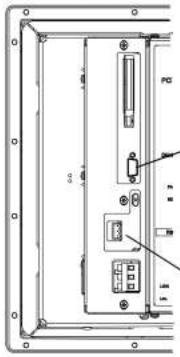
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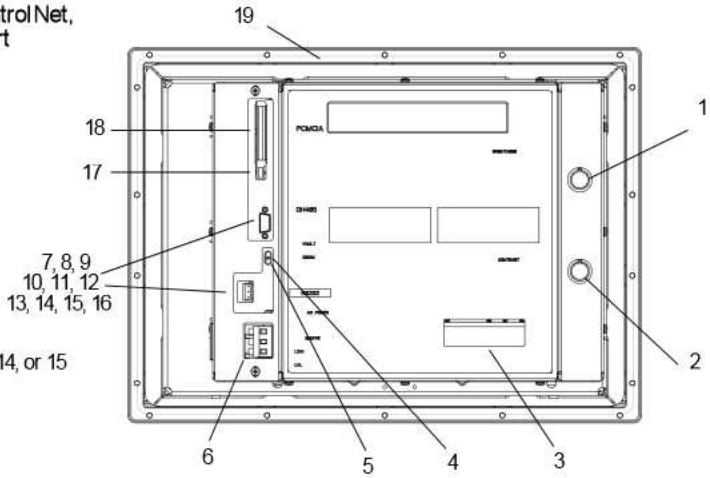
#	Feature	Description
1	Function Keys (F1 F21)	Use the function keys on keypad terminals to initiate functions on the terminal display. These keys may have custom legends.
2	Cursor Keys	Use the cursor keys to move the cursor in displayed lists, to select a numeric entry object, or to enter configuration mode.
3	Numeric Entry Keys	0 9 - Enters numeric values. . Enters a decimal point. - Enters a negative value. Clears entered digits or cancels the scratchpad. Stores an entered value.
4	Keypad Terminal Display	On keypad terminals, initiate the function of a displayed object, such as an ON or OFF push button, by pressing a function key (F1 F21).
5	Touch Screen Terminal Display	On touch screen terminals, initiate the function of a displayed object, such as an ON or OFF push button, by touching the screen object. Each interactive screen object occupies one or more of 384 cells.
6	Touch Cells (Touch Screen terminal)	The 384 touch cells (24 columns x 16 rows) let you initiate functions by touching the screen. Interactive screen objects are aligned with touch cells when the application is created.

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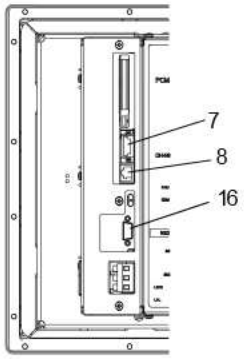
PanelView 1400 Terminal Features (back and sides)

Remote I/O, DF1, DH+, DeviceNet, ControlNet, or Ethernet with additional RS-232 Port

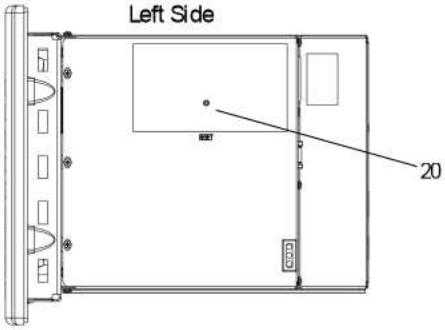




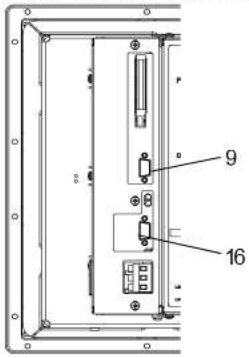
DH-485 with additional RS-232 Port



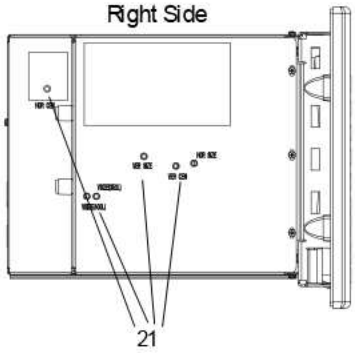
Left Side



RS-232 (DH-485) with additional RS-232 Port



Right Side



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#	Feature	Description
1	Brightness Control	Adjusts the brightness of the color display.
2	Contrast Control	Adjusts the contrast of the color display.
3	Nameplate Label	Provides product information.
4	FAULT Status (Red)	Indicates firmware or hardware faults.
5	COMM Status (Green)	Indicates when communication is occurring.
6	Power Connection Terminals	Connects to external power source.
7	DH-485 Communication Port	Connects to an SLC or MicroLogix controller, DH-485 network, or Wallmount Power Supply (Cat. No. 1747-NP1).
8	DH-485 Programming Connector	Connects to a Personal Computer Interface Converter (Cat. No. 1747-PIC) for transferring applications. Also connects to an SLC programmer, such as the Hand-held Terminal (Cat. No. 1747-PT1).
9	RS-232 (DH-485) Communication Port	Connects to the Channel 0 port of an SLC 5/03, 5/04, or 5/05 for point-to-point DH-485 communication. Connects to a MicroLogix controller through an AIC+ Link Coupler. Also connects to the RS-232 serial port of a computer for transferring applications.
10	Remote I/O Port	Connects to a scanner or sub-scanner on a remote I/O network.
11	DH+ Communication Port	Connects to a PLC-5, SLC 5/04, or ControlLogix controller on a DH+ link.
12	DeviceNet Connector	Connects to a DeviceNet network.
13	ControlNet Connector	Connects to a ControlLogix controller (with 1756-CNB module) or PLC-5 on a ControlNet network.
14	RS-232 (DF1) Communication Port	Connects to a PLC, SLC or MicroLogix controller with a DF1 port.
15	Ethernet Connector	Connects to a PLC-5E or SLC 5/05 controller, or a ControlLogix, MicroLogix, FlexLogix, or CompactLogix (with appropriate bridge module) on an EtherNet/IP network.
16	RS-232 Printer/File Transfer Port	Connects to a printer. On remote I/O, DH+, DF1, DeviceNet, EtherNet/IP, or ControlNet terminals, this port also connects to the RS-232 port of a computer for transferring applications. The RS-232 port on the DH-485 or RS-232 (DH-485) terminal is used to connect a printer but not for file transfers.
17	Memory Card Eject Button	Ejects memory card from slot.
18	Memory Card Slot	Accepts a memory card which stores applications.
19	Sealing Gasket	Seals the front of the terminal to an enclosure or panel.
20	Reset Button	Resets the terminal.
21	CRT Board Adjustments	See the warning below.

ATTENTION



Only qualified service technicians should access the CRT board adjustments. Failure to follow this caution could result in electrical shock, a misadjusted monitor, or a damaged monitor.

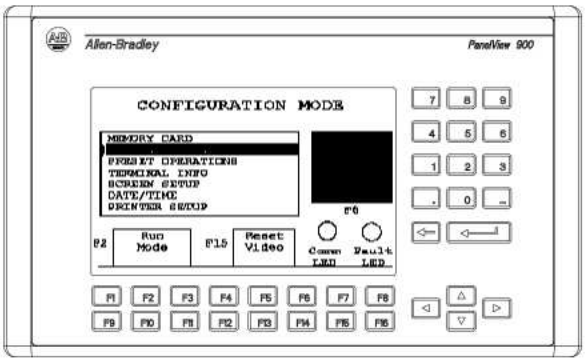
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Applications

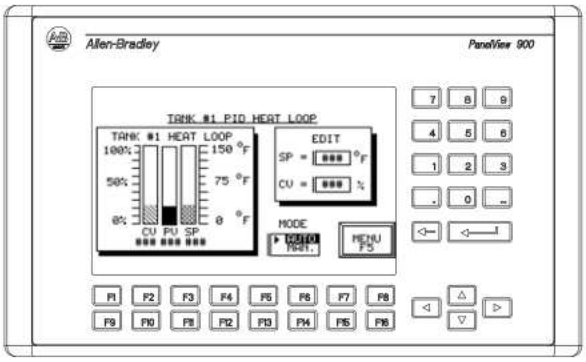
PanelView terminals operate with custom designed applications. The first time you power on the terminal, (no application file loaded), the terminal displays the Configuration Mode menu.

Chapter 3 describes the terminal functions you can configure from this menu.

TIP Remote I/O terminals provide an out-of-box application for setting remote I/O communication parameters.



If an application is loaded, the terminal displays the application's start-up screen.



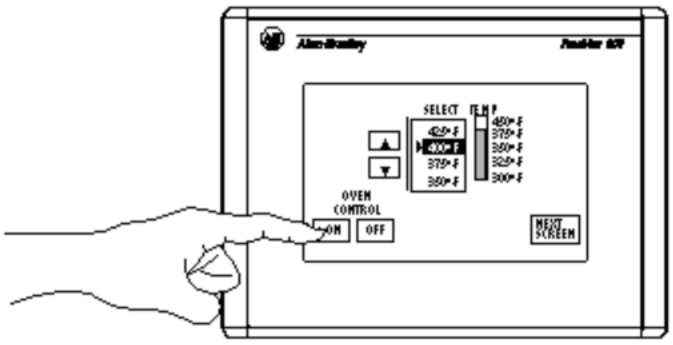
TIP The application designer is responsible for documenting the operation of the application and selecting a startup screen.

How the terminal operates depends on the application and the type of terminal (touch screen or keypad).

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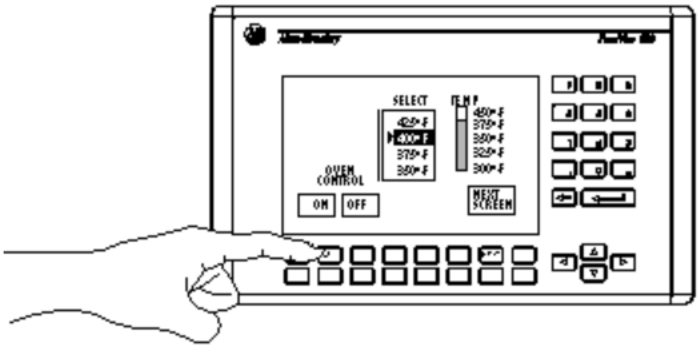
Touch Screen Operation

Applications for touch screen terminals are controlled by touching screen objects.



Keypad Operation

Applications for keypad terminals are controlled by pressing function keys that correspond to screen objects. Data is entered manually by using the numeric entry keys.



A function key legend kit is available for each terminal (except the PV300 Micro terminal) to create custom labels for the function keys.

See the accessories at the end of this chapter.

ATTENTION



Do not press multiple touch screen objects or multiple function keys at the same time. This may result in unintended operation.

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IMPORTANT The keypad is designed for finger or gloved finger operation. The touch screen may be operated with a finger, gloved finger, or with a touch screen plastic stylus device with a minimum tip radius of 1 mm (0.040 in) to prevent damage to the touch screen. Using any other object or tool may damage the keypad or touch screen.

Configuration Mode Menu

You can configure terminal functions from the Configuration Mode menu. These functions include how to:

- select a language.
- upload/download applications with a memory card.
- set or display serial communication parameters.
- select preset values.
- obtain terminal and application information.
- adjust screen parameters.
- set time and date.
- set printer parameters (for terminals with an RS-232 printer port).
- return to run mode.

Chapter 3 describes how to enter configuration mode and operations you can perform by using the Configuration Mode menu.

Terminal Messages

Terminal messages display:

- status of an operation.
- minor faults, errors, or numeric entry mistakes.
- operator prompts.

Appendix B describes terminal messages and provides a list of recommended actions.

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Printing

PanelView terminals equipped with an RS-232 printer port can print:

- triggered messages in a message display.
- triggered states of a multistate indicator.
- alarm messages.
- alarm lists.

Print attributes for objects are defined in the application.

Any printer that supports the IBM enhanced character set can be connected to the RS-232 printer port of a PanelView terminal.

Alarm List

PanelView terminals support an Alarm List queue to store information on triggered alarms. The Alarm List stores a maximum of 100 alarms or as many as the terminal can hold in nonvolatile RAM. The number of alarms stored in the list is configured by using the PanelBuilder32 software.

The Alarm List stores the following data for each alarm:

- Acknowledge indicator
- Alarm date and time
- Acknowledge date and time
- Alarm trigger value
- Alarm text including variables

The Alarm List is cleared:

- when an application is downloaded to the terminal.
- when the terminal is reset or power is cycled.

The Alarm List object may appear on the Alarm Banner or other application screens. The data that displays in the Alarm List is configured using the PanelBuilder32 software.

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Accessories

This section lists the accessories available for the PanelView terminals.

Software

Cat. No.	300M	300	550	600	900	1000	1400	Description
2711-ND3	x	x	x	x	x	x	x	Windows software required for creating PanelView applications on a personal computer.

Function Key Legend Kits

Cat. No.	300	550	600	900	1000	1400	Description
2711-NF1		x					5 legend inserts with key labels F1 F10 on one side. Use blank side to create custom labels.
2711-NF2A				x			1 legend insert for PV900 keypad (monochrome) terminal with key labels F1 F16 on one side. Use blank side to create custom labels.
2711-NF2C				x			1 legend insert for PV900 keypad (color) terminal with key labels F1 F16 on one side. Use blank side to create custom labels.
2711-NF4			x				1 legend insert with key labels F1 F10 on one side. Use blank side to create custom labels.
2711-NF5						x	2 legend inserts. One has key labels F1 F16; the other has key labels F17 F21. Use blank sides to create custom labels.
2711-NF6					x		1 legend insert with key labels F1 F16. Use blank side to create custom labels.
2711-NF7	x						2 legend inserts with key labels F1 F4 and F5 F8. Use blank side to create custom labels.

Memory Cards and Retainer

Cat. No.	300	550	600	900	1000	1400	Description
2711-NM11(1)	x	x	x	x	x	x	256K memory card for storing applications.
2711-NM13	x	x	x	x	x	x	2M flash memory card for storing applications.
2711-NM14	x	x	x	x	x	x	4M flash memory card for storing applications.
2711-NM15	x	x	x	x	x	x	10M flash memory card for storing applications.
2711-NM216(1)	x	x	x	x	x	x	16M flash ATA card for storing applications and font files.
2711-NM232	x	x	x	x	x	x	32M flash ATA card for storing applications and font files.
2711-NMCC		x	x	x	x		Secures memory card in the PanelView 500/600 keypad or the PanelView 900/1000 keypad and touch screen. Prevents electrostatic discharge.
2711-NMCD		x					Secures memory card in 550 touch screen terminal and prevents electrostatic discharge.
2711-NMCE	x		x				Secures memory card in PanelView 300 keypad and 600 touch screen terminals and prevents electrostatic discharge.

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(1) Contact Rockwell Automation for availability.

Antiglare Overlay

Self-adhesive filters minimize the reflection of terminal displays.

Cat. No.	300M	300	550	600	900	1000	1400
2711-NV4 (Keypad)			x				
2711-NV4T (Touch Screen Terminals)			x	x			
2711-NV3K (Keypad)					x		
2711-NV3T (Touch Screen Terminals)					x		
2711-NV5 (Keypad)				x			
2711-NV7K (Keypad Terminals)							x
2711-NV7T (Touch Screen Terminals)							x
2711-NV6K (Keypad Terminals)						x	
2711-NV6T (Touch Screen Terminals)						x	
2711-NV8 (Keypad Terminals)		x					

DH-485 Operating and Programming Cables

Cat. No.	Description
1747-PIC	Personal Computer Interface Converter converts RS-232 signals to/from RS-485 signals. Use to transfer applications between a DH-485 terminal and a computer.
1747-C10	1.83 m (6 ft) cable connects a DH-485 terminal to an SLC or DH-485 network.
1747-C11	0.30 m (1 ft) cable connects a DH-485 terminal to an SLC or DH-485 network.
1747-C20	6.1 m (20 ft) cable connects a DH-485 terminal to an SLC or DH-485 network.
1747-CP3	45 cm (17.7 in.) cable connects an RS-232 terminal to an AIC+ (Port 1) through a null modem adapter.
1761-CBL-AP00	45 cm (17.7 in.) cable connects an RS-232 terminal to an AIC+ (Port 2) through a null modem adapter.
1761-CBL-AC00	3 m (9.8 ft) cable connects an RS-232 terminal to an AIC+ (Port 1) through a null modem adapter.
1761-CBL-AS03	3 m (9.8 ft) cable connects a DH-485 terminal to an AIC+ (Port 3).
1761-CBL-AS09	9.9 m (29.5 ft) cable connects a DH-485 terminal to an AIC+ (Port 3).
1761-CBL-AM00	45 cm (17.7 in.) cable with 2 mini DIN, right angle connectors.
1761-CBL-HM02	2 m (6.5 ft) cable with 2 mini DIN, right angle connectors.
2711-CBL-HM05	5 m runtime cable with 2 mini DIN, right angle connectors.
2711-CBL-HM10	10 m runtime cable with 2 mini DIN, right angle connectors.
1761-CBL-PM00	45 cm (17.7 in.) cable connects an RS-232 terminal to an AIC+ (Port 2) through a null modem adapter.

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Cat. No.	Description
1761-CBL-PM02	2 m (6.5 ft) cable connects an RS-232 terminal to an AIC+ (Port2) through a null modem adapter.
2711-CBL-PM05	5 m programming cable with a D-shell and mini DIN connector.
2711-CBL-PM10	10 m programming cable with a D-shell and mini DIN connector.

PanelView File Transfer Utility

Cat. No.	Description
2711-ND7	Transfers .PVA files between a PanelView terminal and a computer running Windows.

Power Supply and Link Couplers

The following items are available for all PanelView terminals.

Cat. No.	Description
1747-NP1	Wallmount power supply provides power for DH-485 communication when an SLC controller or network is not connected.
1747-AIC	AIC Link Coupler links devices on a DH-485 network.
1761-NET-AIC	AIC+ Advanced Interface Converter links devices on a DH-485 network including MicroLogix.
1761-NET-DNI	DeviceNet Interface links DF1 PanelViews on a DeviceNet network.
1761-NET-ENI	Ethernet Interface links DF1 or Ethernet devices on an EtherNet/IP network.

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RS-232 Cables

Cat. No.	Description
2711-NC13	5 m (15 ft) connects an RS-232 terminal to the Channel 0 port of an SLC 5/03 controller or the RS-232 port of a computer or printer.
2711-NC14	10 m (32 ft) cable connects an RS-232 terminal to the Channel 0 port of an SLC 5/03 controller or the RS-232 port of a computer or printer.
2711-NC21	5 m (15 ft) connects an RS-232 terminal to a MicroLogix controller (except PV300 Micro).
2711-NC22	15 m (49 ft) cable connects an RS-232 terminal to a MicroLogix controller (except PV300 Micro).
2706-NC13	3 m (10 ft) cable connects an RS-232 terminal to an SLC 5/03 controller or the RS-232 port of a computer or printer.
1761-CBL-AP00	0.5 m (1.5 ft) cable connects a PanelView 300 Micro RS-232 terminal to an SLC or PLC.
1761-CBL-PM02	2 m (6.5 ft) cable connects a PanelView 300 Micro RS-232 terminal to an SLC or PLC.
2711-CBL-PM05	5 m (15 ft) cable connects a PanelView 300 Micro RS-232 terminal to a ControlLogix, AIC+, SLC controller, or computer RS-232 port.
2711-CBL-PM10	10 m (30 ft) cable connects a PanelView 300 Micro RS-232 terminal to a ControlLogix, AIC+, SLC controller, or computer RS-232 port.
1761-CBL-AMCO	0.5 m (1.5 ft) cable connects a PanelView 300 Micro RS-232 terminal to a MicroLogix.
1761-CBL-HM02	2 m (6.5 ft) cable connects a PanelView 300 Micro RS-232 terminal to a MicroLogix.
2711-CBL-HM05	5 m (15 ft) cable connects a PanelView 300 Micro RS-232 terminal to a MicroLogix 1000/1200/1500, DeviceNet DNI, or AIC+ module.
2711-CBL-HM10	10 m (30 ft) cable connects a PanelView 300 Micro RS-232 terminal to a MicroLogix 1000/1200/1500, DeviceNet DNI, or AIC+ module.

Remote I/O or DH+ Cable

Cat. No.	Description
1770-CD	Shielded, 3-conductor cable (Belden 9463) for connecting a remote I/O terminal to a remote I/O network.

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Replacement Parts

This section lists the replacement parts available for the PanelView terminals.

Backlight Lamps

Cat. No.	550	600	900	1000	Description
2711-NL1	x				Halogen backlight lamp for all PV550 terminals. Provides backlighting for LCD display.
2711-NL2			x		Backlight for PV900 color terminal.
2711-NL3		x			Backlight for PV600 color terminal.
2711-NL4				x	Backlight for PV1000 color terminal.
2711-NL5		x			Backlight for PV600 (Series C only)
2711-NL6				x	Backlight for PV1000 color terminal (Series B only)
2711-NL7				x	Backlight for PV1000 color terminal (Series C only)
2711-NL9				x	Backlight for PV1000 color terminal (Series D and Series E only) Backlight for PV1000 grayscale terminal (Series C and Series D only)
2711-NL10				x	Backlight for PV1000 color terminal (Series F only) Backlight for PV1000 grayscale terminal (Series E only)

Real Time Clock Modules

Cat. No.	300	550	600	900	1000	1400	Description
2711-NB2		x					Real time clock module for PV550 (Series D or earlier). Does not apply to the PV550 touch screen terminals. Contains lithium battery.
2711-NB3		x	x	x	x	x	Real time clock module for PV600, PV900, PV1000, PV1400 or PV550 (Series E and F). Does not apply to PV550/PV600 touch screen terminals. Contains lithium battery.
2711-NB4	x	x	x		x		Real time clock module for PV300, PV550 (Series G and later), PV550/PV600 touch screen, PV600 (Series C and later), PV1000 color (Series D and later), and PV1000 grayscale (Series B and later) terminals. Contains lithium battery.

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Panel Mount Clips and Studs

Cat. No.	600	900	1000	1400	Description
2711-NP1				x	10 panel mount clips for PV1400 terminal.
2711-NP2	x	x	x		6 panel mount clips for PV600, PV900 or PV1000 terminals.
2711-NP3				x	Optional panel mount studs (18) for PV1400 terminals.

Remote I/O Connector

Cat. No.	550	600	900	1000	1400	Description
22112-046-03	x	x	x	x	x	Terminal block connector plugs into remote I/O port of remote I/O terminals.

Power Input Connector

Cat. No.	300M	600 (touch only)	Description
2711-TBDC	x	x	Removable dc power input connectors for PanelView 300 Micro (qty. of 10).

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Applying Power and Resetting Terminal

Chapter Objectives

This chapter provides information on:

- wiring and safety guidelines.
- connecting AC or DC power.
- resetting the terminal.
- power-up sequence.

Wiring and Safety Guidelines

Use publication NFPA 70E, Electrical Safety Requirements for Employee Workplaces when wiring the PanelView terminals. In addition to the NFPA general guidelines:

- connect the terminal to its own branch circuit.
- the input power should be protected by a fuse or circuit breaker rated at no more than 15 Amps.
- route incoming power to the PanelView terminal by a separate path from the communication cable.

IMPORTANT Do not run signal wiring and power wiring in the same conduit.

where power and communication lines must cross, they should cross at right angles. Communication lines can be installed in the same conduit as low level DC I/O lines (less than 10V).

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Hazardous Location Considerations

This equipment is suitable for use in Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Class III; or non-hazardous locations only. The following WARNING statement applies to use in hazardous locations.

WARNING EXPLOSION HAZARD



Substitution of components may impair suitability for Class I, Class II, Class III Division 2.

Do not replace components or disconnect equipment unless power has been switched off or the area is known to be non-hazardous.

Do not connect or disconnect components unless power has been switched off or the area is known to be non-hazardous.

This product must be installed in an enclosure. All cables connected to the product must remain in the enclosure or be protected by conduit or other means.

All wiring must comply with N.E.C. article 501-4(b), 502-4(b), 503-3(b) as appropriate.

See the nameplate on terminal for hazardous locations certifications.

ATTENTION



In Class I, Class II, Class III Division 2 Hazardous locations, the PanelView terminal must be wired per the National Electric Code as it applies to hazardous locations. Peripheral equipment must also be suitable for the location in which it is installed.

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Connect AC Power

Below are AC electrical ratings for the PanelView terminals. The PV550/PV600 touch screen only terminal is available only with DC power, not AC power.

Terminal Type	Supply Voltage	Power Consumption, Max
PV550	85 264V AC, 47 63 Hz	45 VA
PV600	85 264V AC, 43 63 Hz	60 VA
PV900M/PV900C	85 264V AC, 47 63 Hz	110 VA
PV1000G/PV1000C	85 264V AC, 47 63 Hz	55 VA
PV1400	85 264V AC, 43 63 Hz	200 VA

ATTENTION



Do not apply power to the PanelView terminal until all wiring connections have been made. Failure to do so may result in electrical shock.

The PanelView terminals are IEC 1131-2 Equipment Class I devices and require you to connect the GND (Ground) or ⏚ (Protective Earth) terminal to an earth conductor.

IMPORTANT

The PanelView terminals are designed for safe use when installed in a NEMA Type 12, 13, 4X (indoor use only), IP54 or IP65 rated enclosure.

Follow these steps to connect power to the AC versions of the PanelView.

1. Secure AC power wires to the L1 and L2N terminal block screws.
2. Secure the Earth Ground/Protective Earth wire to the GND or the ⏚ screw on the terminal block.

ATTENTION



Improper wiring of the power terminals may result in voltage at the communication connector shells.

See the appropriate wiring diagram on page 62.

3. Apply power to the terminal.

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