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Allen-Bradley

System Overview

PanelView™ Standard Operator Interface Terminals

Rockwell Automation

Bringing Together Leading Brands in Industrial Automation

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PanelView Standard

Get The View

Experience Complete Satisfaction With Allen-Bradley

Since 1903, Rockwell Automation's Allen-Bradley has earned a worldwide reputation as the most trusted brand name in industrial automation. Its reputation is built on a very simple strategy: providing customers with products of uncompromising quality and reliability. The PanelView Standard family of operator terminals is a good case in point. These operator terminals exemplify Rockwell Automation's commitment to the highest standards of product dependability, technological innovation, and performance. And because your absolute satisfaction is important to us, we back you and our products with the highest levels of customer service and support in the industry. Your local Rockwell Automation representative is your source for expert sales and order support, as well as:

- Product technical training
- Warranty support
- Service agreements





High Performance Electronic Operator Terminals to fit your needs

The PanelView Standard operator terminals, from the 300, 550, 600, 900, 1000, and 1400, are engineered for maximum performance in space saving, flat panel designs or 14-inch CRTs. These electronic operator interfaces feature brilliant graphics capabilities and high performance functionality in color, grayscale and monochrome displays. The PanelView Standard family offers you a complete line of rugged electronic operator interface solutions in a variety of sizes and configurations to meet your specific application requirements.

Flexible Communications and Controller Connectivity

The PanelView Standard family of operator interfaces offers you multiple communication options to Allen-Bradley's MicroLogix™, SLC 500™, PLC®, and ControlLogix™ control platforms as-well-as other PLC brands.







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Family of Operator Interface



Choose from a stand-alone single system to multi-layer enterprise wide solutions. Each system is capable of providing process information over a variety of communication protocols via DeviceNet™, ControlNet™, Data Highway Plus™, Remote I/O, DF1™ (RS232), DH-485, Profibus™, and Modbus™.

Advanced Alarm Handling Capabilities

The PanelView Standard terminals feature a suite of advanced alarm handling capabilities. Terminals can record and display important data on triggered alarms, while alarm banners alert operators and maintenance personnel to slow or fault conditions. These advanced alarm handling capabilities can be configured specifically for your application needs.

Universal Language Support

PanelView Standard operator terminals offer Universal Language support in over 46 languages. Using PanelBuilder32™, applications can be easily created or converted to any language (or character set) supported by Windows.

ATA PC Memory Card

The family of PanelView Standard terminals supports standard ATA memory cards. These cards are used to store font files for running applications in local languages. They are also used to transfer application files from a PC to a PanelView or between other PanelView terminals.

PanelBuilder32™ Software

PanelBuilder32 is the configuration software used across the entire family of PanelView Standard operator interface terminals, allowing easy conversion and reuse of existing applications. This software uses a Microsoft® Windows® graphical interface, color palettes, pre-configured symbols, objects, and graphics for quick and easy screen configuration.

Screen Security

PanelView Standard terminals offer you the ability to secure application screens to qualified users. Up to 16 passwords are allowed per application.







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Features

- Keypad, Touch Screen, or Keypad/Touch Screen combination terminals offer convenient and flexible choices for operator input
- Pixel Graphic Displays in color, grayscale and monochrome are designed to offer minimal depth with maximum viewing angles
- Full Complement of Operator Devices to create screens including push buttons, selectors, numeric and ASCII entry devices, diagnostic indicators, message displays, embedded numeric and ASCII variable displays, custom graphics and more
- Extensive Alarm Capabilities to record and display important data on triggered alarms including active status, with additional options for printing or clearing the Alarm List.
- Screen Security – operator access can be controlled by assigning security classifications to application screens
- Optional RS-232 Printer Port to print alarms, alarm lists, triggered messages and triggered states of a multi-state indicator
- Field replaceable backlights to extend the life of the PanelView 550, 600, 900 and 1000 (color) terminals
- Universal Language Support for over 46 languages
- Communications Flexibility. ControlNet, DeviceNet, Data Highway Plus, Remote I/O, DH-485, and DF1 protocols make these terminals ideal for PLC, SLC 500, ControlLogix, and MicroLogix control platforms as well as open device level communications

PanelView Standard Family of Operator Interfaces

PanelView Standard operator terminals, from the PanelView 300, to the PanelView 1400, are engineered for maximum performance. Featuring brilliant graphics capabilities – in color, monochrome, or gray scale – and high performance functionality.

The PanelView family offers you a complete line of rugged electronic operator interface solutions in a variety of sizes and configurations to meet your particular needs. These PanelView operator terminals are ideal for a whole host of applications. You will find them working hard in more than 80 countries around the world, supporting such industries as automotive, pulp and paper, water and wastewater and petrochemical.

And make no mistake – these PanelView terminals are ready to take on the most demanding working environments. Each PanelView Standard terminal carries UL, cUL/CSA and CE certifications. They are also rated for NEMA 4X and approved for Class 1 Division 2 (flat-panel only) operation.

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PanelView 300, 550, and 600 operator interface terminals

The PanelView 300, 550, and 600 operator terminals offer electronic operator interface capabilities in a space saving, flat-panel design. The result is a compact package that's loaded with performance functionality. These terminals feature pixel graphics for enhanced operator screens. The PanelView 300 and 550 interfaces have monochrome LCD displays while the PanelView 600 has an active matrix thin film transistor (TFT) or passive matrix color display.

PanelView 300 (Monochrome)



- 3" diagonal transflective LCD (LED back-lit) monochrome display, ideal for high ambient light applications; 128x64 pixel resolution
- 8 Function keys, Numeric keypad, Cursor Control keys; 2.7" (69mm) installed depth; 100,000 hour LED backlight life
- DeviceNet, DH-485, and DF1 communications

PanelView 550 (Monochrome)



- Keypad or Keypad/Touch Screen combination
- 5.5" diagonal LCD monochrome display; 256x128 pixel resolution
- 10 Function keys, Numeric keypad, Cursor Control keys; 3.4" (86mm) installed depth

PanelView 550 Touch Only (Monochrome)



- 30% smaller than keypad version; fits in PV600 Touch Only cutout
- 5.5" diagonal LCD monochrome display; 256x128 pixel resolution
- 128 Touch Cells; 2.5" (64mm) installed depth

PanelView 600 (Color)



- Keypad or Keypad/Touch Screen combination
- 6.0" diagonal TFT active matrix color display; 320x234 pixel resolution
- 10 Function keys, Numeric keypad, Cursor Control keys; 3.6" (91mm) installed depth

PanelView 600 Touch Only (Color)



- 35% smaller than the keypad version; fits in PV550 Touch Only cutout
- 6.0" diagonal passive matrix color display; 320x240 pixel resolution
- 128 Touch Cells; 3.12" (79mm) installed depth

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PanelView 900 (Color)



- Keypad or Touch Screen
- 8.4" diagonal TFT active matrix color display; VGA 640x480 pixel resolution
- Keypad Version: 16 Function keys, Numeric keypad, Cursor Control keys
- Touch Screen Version: 384 Touch Cells
- 3.5" (90mm) installed depth

PanelView 1000 (Color or Grey Scale)



- Keypad or Touch Screen
- Color: 10.4" diagonal TFT active matrix color display; VGA 640x480 pixel resolution
- Grey Scale: 10.4" diagonal Electro-luminescent (EL) display; 640x480 pixel resolution
- Keypad Version: 16 Function keys, Numeric keypad, Cursor Control keys
- Touch Screen Version: 384 Touch Cells
- 3.5" (90mm) installed depth

PanelView 1400 (Color)



- Keypad or Touch Screen
- 14" diagonal CRT color display; SVGA 800x600 pixel resolution
- Keypad Version: 21 Function keys, Numeric keypad, Cursor Control keys
- Touch Screen Version: 384 Touch Cells
- 14.7" (370mm) installed depth

PanelView 900, 1000, and 1400 operator interface terminals

The PanelView 900, 1000, and 1400 are the heavy-duty workhorses of the PanelView Standard family. These operator interfaces provide a window into your machine or process with exceptionally wide viewing angles to help you focus on critical information essential for maintaining uptime. The PanelView 900 and 1000 have minimal depth with their flat panel design, while the PanelView 1400 offers the ultimate in size and viewability in a color CRT operator interface. The PanelView 900, 1000, and 1400 are available in both keypad or touchscreen input designs.

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Flexible Communication Options

The PanelView Standard 300, 550, 600, 900, 1000, and 1400 operator terminals offer flexible configuration and communications. These communication options allow you to select the optimum method for your application needs. The options span from the simple point-to-point RS-232 to the sophisticated and high speed ControlNet. In addition, Profibus and Modbus are available with DeviceNet and ControlNet to communicate to many other brands of PLC controllers. Available in several versions:

- DeviceNet
- ControlNet
- Data Highway Plus
- Remote I/O
- DH-485
- RS-232 (DH-485 protocol)
- DF1
- Profibus
- Modbus

DeviceNet Terminal connects and communicates at device level on a DeviceNet link using server explicit, client explicit, I/O or 'Listen Only' messaging. It also connects to PLC-5, SLC 500, and ControlLogix controllers on the link using a DeviceNet Scanner Module.

ControlNet Terminal connects to multiple controllers on a ControlNet network. Scheduled and unscheduled PLC-5/ControlLogix messages are supported with redundant cabling.

Data Highway Plus Terminal connects to a single PLC, or SLC 5/04 controller, or ControlLogix system or multiple controllers on the Allen-Bradley DH+™ network. Direct access to controller data files minimizes ladder logic.

Remote I/O Terminal connects to a PLC or SLC 500 controller, or ControlLogix system, on the 1771 Remote I/O network, supporting both discrete and block transferring of data.

DH-485 Terminal connects to a single or multiple SLC 500 or MicroLogix processors on the Allen-Bradley DH-485 network. It supports point-to-point or network transfers.

RS-232 (DH-485 protocol) Terminal connects to MicroLogix and SLC 500 controllers using DH-485 protocol. In a point-to-point configuration, it provides a dedicated connection for high priority data.

DF1 Terminal communicates with a single SLC 500, PLC-5 or MicroLogix controller over a point-to-point DF1 link or DF1 network connection using full duplex communications.

Profibus Terminal communicates using the Profibus DP standard for high-speed (up to 1.5M baud) data transmission to Siemens® and other controllers supporting the Profibus DP protocol.

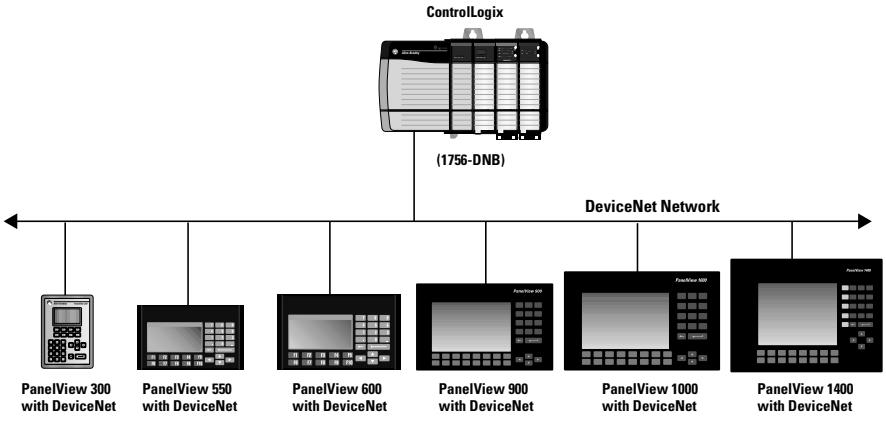
Modbus Terminal uses this half duplex, master-slave protocol to communicate over non Rockwell Automation control architectures including Modicon and GE® controllers.

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DeviceNet Communications Option

PanelView Standard operator interfaces are certified DeviceNet compliant. This compliance guarantees compatibility with other compliant devices. The DeviceNet terminals connect and communicate at device level on a DeviceNet link (at 125k, 250k or 500k baud) using server explicit, client explicit, I/O or listen only messaging. They can also connect to PLC, SLC, and ControlLogix controllers on the link that uses a DeviceNet Scanner Module. Direct access to data minimizes ladder logic. Application files are easily downloaded or uploaded using PanelBuilder32 over the DeviceNet network or directly via the on-board RS-232 printer port, or with a PC memory card.

- Supports change-of-state, cyclic, polled, and peer-to-peer messaging for efficient communication
- DeviceNet 'Listen Only' functionality reduces network traffic and logic required to provide information to a PanelView
- Enhances troubleshooting on the DeviceNet network
- Terminals communicate with a range of devices on the network

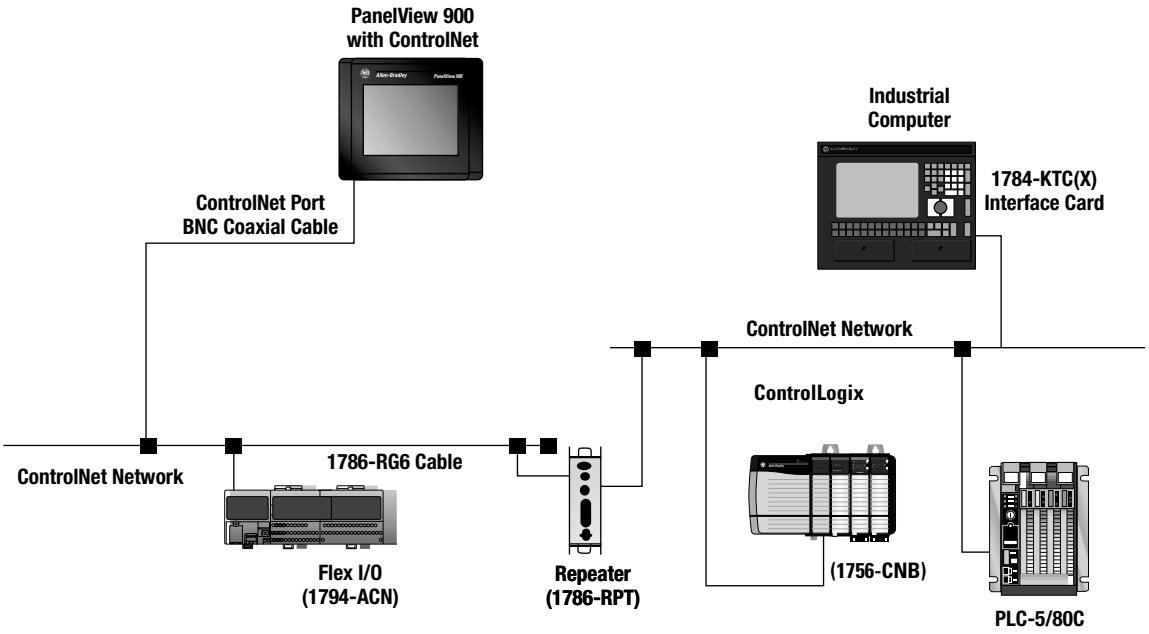


DeviceNet™ CONFORMANCE TESTED

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ControlNet Communication Option

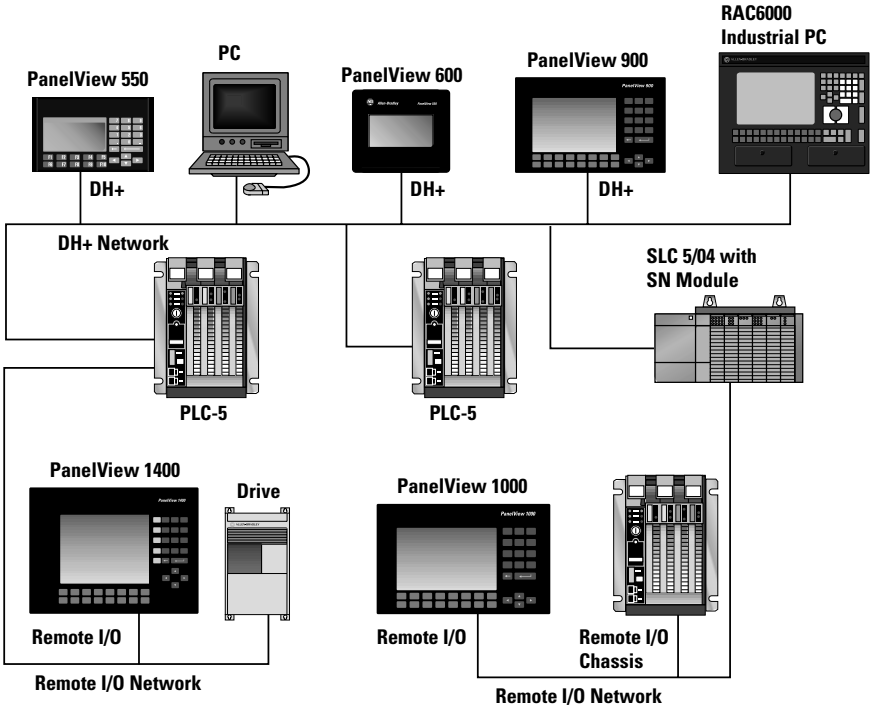
The ControlNet terminals can connect to a single or multiple controllers on a ControlNet network. They support scheduled and unscheduled access to controller data – and redundant cabling. They also support symbolic CIP addressing when communicating to a ControlLogix system. Each terminal also features a Network Access port for local access to the ControlNet network. Application files are easily downloaded or uploaded using PanelBuilder32 on the ControlNet link or directly via the on-board RS-232 printer port. The PC memory card interface can also be used.



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Data Highway Plus

The Data Highway Plus terminals are capable of point-to-point communication with a single controller as well as network communication with multiple controllers over an Allen-Bradley DH+ network. Direct access to controller data files minimizes ladder logic. Application files are easily downloaded or uploaded using PanelBuilder32 over the DH+ network or directly via the on-board RS-232 printer port, or with a PC memory card.



1771 Remote I/O

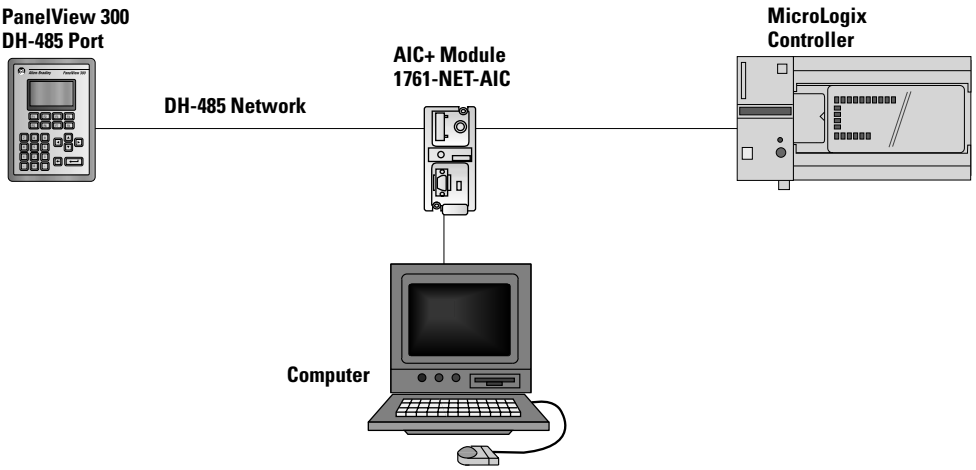
The Remote I/O terminals connect to a PLC or SLC 500 controller (via 1747-SN module) and ControlLogix system (via 1756-DHRIO) on the 1771 Remote I/O network, supporting both discrete and block transferring of data. Application files are easily downloaded or uploaded using PanelBuilder32 via Remote I/O 'Pass Through', or directly via the on-board RS-232 printer port, or with a PC memory card.

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DH-485 Communication Option

The DH-485 terminals are capable of point-to-point communication with a single SLC 500 or MicroLogix controller, as-well-as network communication with multiple processors over the DH-485 network. Direct data table access via DH-485 minimizes the need for additional ladder logic. Application files are easily downloaded or uploaded using PanelBuilder32 over the DH-485 network or directly via the DH-485 programming port, or with a PC memory card.

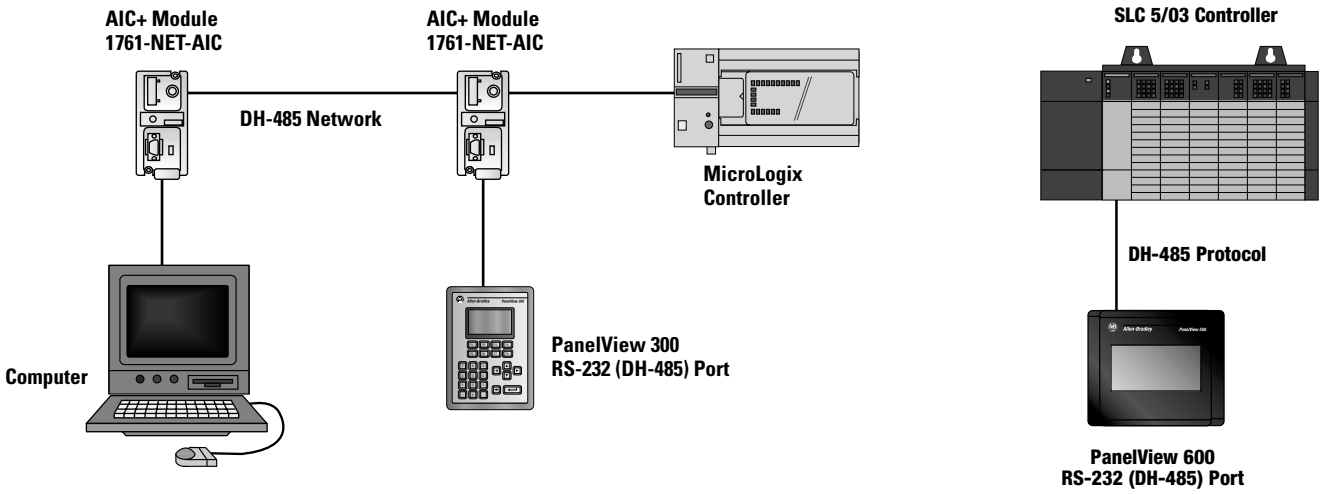




RS-232 (DH-485 protocol) Communication Option

The PanelView Standard RS-232 terminals connect point-to-point to a MicroLogix controller and to the Channel '0' port of an SLC 5/03, or 5/04, or 5/05 controller using DH-485 protocol, and provides a dedicated connection for high priority data. They can also connect to a DH-485 network using the AIC+ module. Application files are easily downloaded or uploaded using PanelBuilder32 over the DH-485 network, via an SLC DH+ or Ethernet 'Pass Through' connection, directly via the on-board RS-232 printer port (select terminals) or the standard RS-232/DH-485 port (terminal disconnection required), or with a PC memory card.

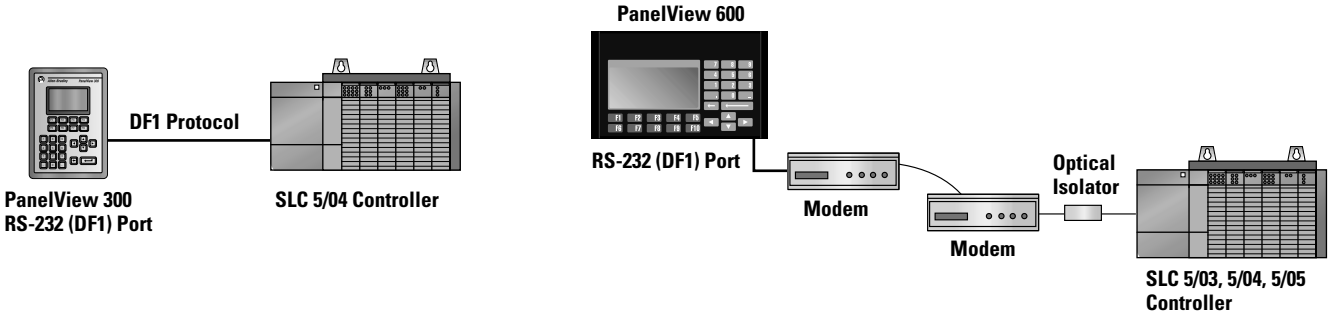




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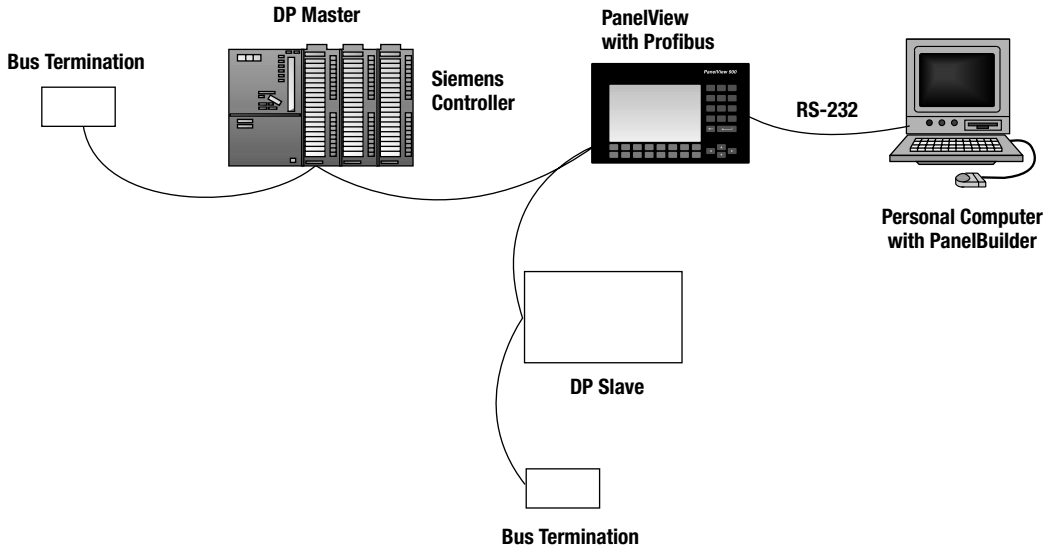
DF1 Communications Option

DF1 is a proprietary Allen-Bradley master/slave protocol used to transport data over a serial data communications RS-232, RS-422, and RS-485 interface. DF1 is used for applications requiring messaging to and from Allen-Bradley controllers and other equipment. PanelView DF1 terminals communicate with a single SLC, PLC-5, or MicroLogix controller over a point-to-point DF1 link or DF1 network (modem) connection using full duplex communication for high performance peer-to-peer communications. Application files are easily downloaded or uploaded using PanelBuilder32 via an SLC DH+ or "Ethernet® Pass-Through" connection, directly via the on-board RS-232 printer port (select terminals) or the standard RS-232/DF1 port (terminal disconnect required), or with a PC memory card.



PROFIBUS Communications Option

Profibus DP is a non-Rockwell Automation network that uses the polling principle for communication. It is a remote I/O protocol consisting of a DP Master(s) and DP slave(s). PanelView PROFIBUS terminals act as slaves on a PROFIBUS DP network. A DP Master acts as a requester of data from DP slaves. PanelView terminals and other DP slaves respond to the data requests, implementing a defined set of functions. Application files are easily downloaded or uploaded directly using PanelBuilder32 via the on-board RS-232 printer port or using a PC memory card.

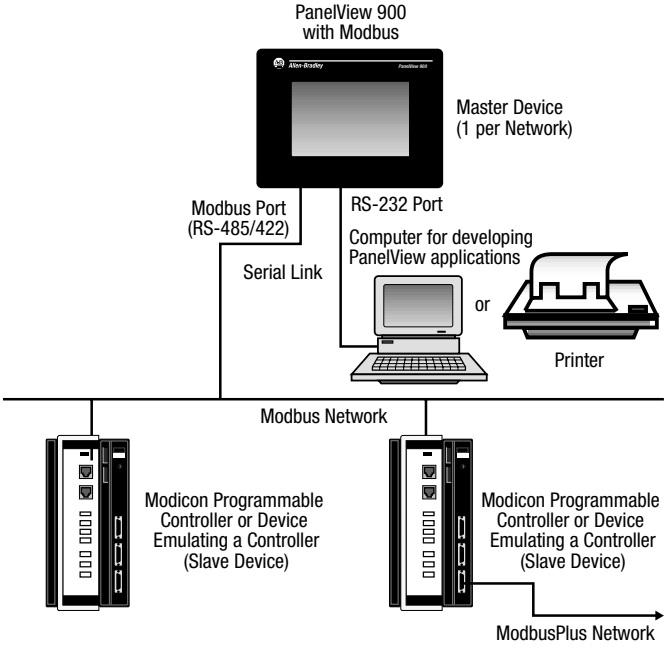


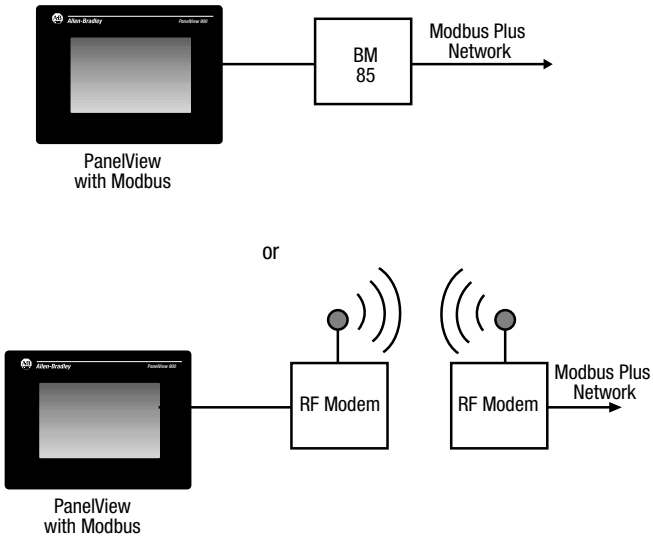
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Modbus Communications Option

Modbus is a non-Rockwell Automation control architecture utilizing a half-duplex, master–slave communications protocol. PanelView Modbus terminals act as a master on the network, communicating with a maximum of 255 slave devices. They communicate with other devices over an RS-232 (point-to-point) or RS-485/RS-422 (multi-drop) serial link. PanelView Modbus terminals can also connect to the Modbus Plus network via a bridge multiplexer (BM85) or RF modem.

Application files are easily downloaded or uploaded directly using PanelBuilder32 via the on-board RS-232 printer port or using a PC memory card.





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PanelView Standard Network Connections

Because PanelView Standard terminals offer such flexible communication options, you can optimize your operator interface needs to your control or process architecture. Or, as your control system needs change, so can your operator interface system. These network connection options encompass simple point-to-point RS-232 and the sophisticated and high speed ControlNet protocols.

Along with these flexible network connections for runtime operation, you have multiple options for uploading and downloading application files with PanelBuilder32 – direct, over the network, or via a 'Pass Through' or 'Gateway' connection.

Standard Network Connections — Runtime Operation

Network Connection	MicroLogix	SLC-500, 5/01, 5/02	5/03	5/04	5/05	PLC-5	ControlLogix
Remote I/O	n/a	5/02 with 1747-SN	with 1747-SN	with 1747-SN	with 1747-SN	yes	with 1756-DHRIO**
DH+	n/a	n/a	n/a	yes	n/a	yes	with 1756-DHRIO**
DF1	with AIC+*	n/a	Ch. 0	Ch. 0	Ch. 0	Ch. 0	n/a
DH-485 (RS485 physical connection)	with AIC+	yes	yes	with AIC+ to Ch. 0	with AIC+ to Ch. 1	n/a	n/a
DH-485 (RS232 physical connection)	with AIC+*	with AIC+*	Ch. 0	Ch. 0	Ch. 0	n/a	n/a
DeviceNet	with 1761- NET DNI	5/02 with 1747-SDN	with 1747-SDN	with 1747-SDN	with 1747-SDN	with 1771-SDN	with 1756-DNB
ControlNet	n/a	n/a	n/a	n/a	n/a	PLC-5C	with 1756-CNB***

* For isolation purposes if not on the same power supply.
** Legacy mode. Example: address = N7:0
*** Symbolic (CIP) addressing. Example: address = Tank level

PanelView Application File Upload/Download Direct and Network Connections

PanelView Type	Direct Connection PC (with PanelBuilder32) to PanelView	Network Connection PC (with PanelBuilder32) over Network
DeviceNet	2711-NC13 (via RS-232 printer port)	Yes – via PV DeviceNet port
ControlNet	2711-NC13 (via RS-232 printer port)	Yes – via PV ControlNet port
Data Highway Plus	2711-NC13 (via RS-232 printer port)	Yes – via PV DH+ port
Remote I/O	2711-NC13 (via RS-232 printer port)	N/A – PC cannot connect to R/IO network
DH-485 (RS-485 port)	1747-PIC* or AIC+ module	Yes – via PV DH-485 port
DH-485 (RS-232 port)	2711-NC13 (via RS-232 port) or 2711-NC13 (via RS-232 printer port – select terminals only)	Yes – via PV RS-232 (DH-485) port
DF1	2711-NC13 (via RS-232 port) or 2711-NC13 (via RS-232 printer port – select terminals only)	N/A – use a Pass-Through connection
Profibus	2711-NC13 (via RS-232 printer port)	N/A
Modbus	2711-NC13 (via RS-232 printer port)	N/A

* When connecting a personal computer to a PanelView terminal, using a PIC without a controller connected, you need a power supply (1747-NP1)

PanelView Application File Upload/Download Pass-Through & Gateway Connections

PC Network (PC to Controller)	Controller*	PanelView Network (Controller to PanelView)
Ethernet	ControlLogix/Gateway PLC-5 SLC 5/05	ControlNet, DeviceNet, RI/O DeviceNet, RI/O DeviceNet, RI/O, DH-485, DF1
ControlNet	ControlLogix/Gateway PLC-5	DeviceNet, RI/O DeviceNet, RI/O
DH+	PLC-5 SLC 5/04	DeviceNet, RI/O DeviceNet, RI/O, DH-485, DF1
DH-485	SLC 5/03, 5/04 , 5/05 SLC 5/03 , 5/05 SLC 5/04	DeviceNet RI/O DH+
DF1	ControlLogix/Gateway SLC 5/03, 5/04, 5/05 SLC 5/04	ControlNet, DeviceNet DeviceNet, RI/O DH+

* The controller must support PC network as well as PanelView network. Consult controller manual for details

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PanelView Standard Features

The Family of PanelView Standard operator terminals provide you with a rich collection of both hardware and software features. These features are designed to simplify programming and improve operator productivity. These PanelView Standard features are:

- Advanced Alarming
- Universal Language Support
- ATA PC Memory Card
- Screen Security
- PanelBuilder32
- Device configuration: File Upload/Download

Advanced Alarming Functionality

The PanelView Standard terminals feature a suite of advanced alarm handling capabilities. Terminals can record and display important data on triggered alarms, while alarm banners alert operators and maintenance personnel to slow or fault conditions. These advanced alarm handling capabilities can be configured specifically for your application needs.

Alarm Banner

Appearing on the active screen when an alarm is triggered, Alarm Banners allow operators to immediately respond to an urgent situation. The banner, configured for any size or placement, contains a message describing the alarm condition, and optional alarm buttons allow the operator to clear the alarm banner, acknowledge the alarm, or print the alarm.

Alarm Listing

PanelView Standard terminals support an Alarm List queue to store information on triggered alarms. An alarm list provides information on triggered alarms based on the condition of the alarm being active, inactive or both. The data that displays in the Alarm List is configured using the PanelBuilder32 Software.



PanelView terminals feature extensive alarm handling capabilities, including an alarm banner which alerts operators to fault conditions.

Capable of being used multiple times in an application, alarm lists can appear as a full screen object or as part of a screen. In fact, an alarm list can even be part of the Alarm Banner. The Alarm List stores a maximum of 100 alarms. The number of alarms stored in the list is configured using the PanelBuilder32 software.



Alarm Lists record and display important alarm data.

Alarm List can be configured to contain the following data:

- Alarm time and date stamp
- Acknowledge indicator-shows if the alarm has been acknowledged
- Acknowledge time and date
- Alarm trigger value-provides critical information about equipment/process status at the time of the alarm
- Alarm text-conveys user-defined information about the alarm situation

User-defined screens combining alarm buttons with an alarm list object offer the advantage of being able to acknowledge, clear and print alarms directly from an application's Alarm list screen. Making use of the Alarm Parameters feature, operators can remotely acknowledge or clear alarms from any PanelView terminal providing increased user flexibility.

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Universal Language Support

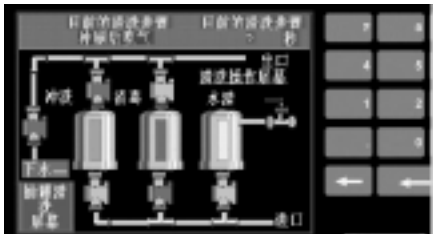
Universal Language Support (ULS) is available to offer global customers the advantage of creating applications in over 46 languages. PanelBuilder32 software supports fonts for creating applications in languages or character sets supported by Windows.

For languages that use double-byte character sets (DBCS) such as Asian languages, your computer must run either a version of Windows, in that language, or an Input Method Editor (IME) supporting the selected language. The IME is a Utility/program to enter characters that cannot be entered with a standard English keyboard.

An ATA PC memory card containing the fonts is held in the card slot of the PanelView terminal while the application is running. The terminal uses these fonts to display characters for the language on the screen.



Universal Language Support allows applications to display text in many languages, such as Chinese.



PanelBuilder development software can be used to configure application screens with text in over 46 languages.

ATA PC Memory Card

ATA PC memory cards are plug-and-play (with Windows 95 or 98) Flash memory storage devices. These memory cards typically have over 4 Mbytes of storage and can be used to transfer application files, store special ASCII font files and ULS font files, and update PanelView terminal firmware.



These ATA PC memory cards fit in the modem slot of your laptop. They appear as another floppy or hard drive when viewed with Windows Explorer. PanelView application, firmware, and font files can be dragged on to the card using Windows Explorer or you can save directly to the card from PanelBuilder32. Files can be deleted individually through Windows Explorer.

PanelView Standard firmware as well as updated or existing application files can be transferred to other PanelView Standard operator terminals conveniently on the plant floor. This capability eliminates traditional downloading or uploading of programs. OEMs can send application file updates and firmware to customers on the same card to guarantee compatibility. Plant engineering can just hand a card to maintenance without requiring a computer, software, or a cable to download the file.

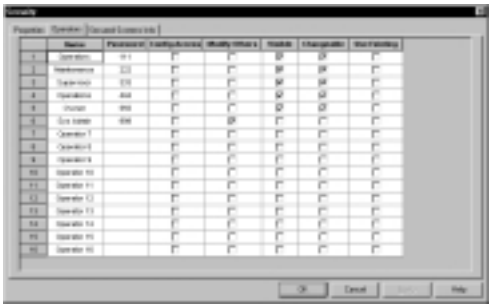
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Screen Security for PanelView Standard Terminals

PanelView Standard terminals offer you the ability to secure application screens to qualified users. Use up to 16 passwords per application to secure individual screens, allow access to configuration mode, and allow entry from screen saver or idle mode.

There are three screen security modes:

- Screen Mode – prompts user for a password when entering a secured screen from an unsecured screen or a screen the user does not have access to. Password is remembered when moving between secured screens.
- Login Mode – uses a Login button on a screen to enter a password. Remembers the password even if on unsecured screens. Will not prompt user for a password.
- Auto Login Mode – prompts users for a password when entering a screen that the current operator does not have access to.



PanelBuilder32 for Quick and Easy Screen Configuration

PanelBuilder32 software supports the entire family of PanelView standard terminals, allowing easy conversion and reuse of existing applications. The graphical interface of Microsoft Windows simplifies application design and reduces development costs. Screen configuration is easy using tools such as symbols, objects, graphics and imported bitmap images. Use cut, copy, paste, and tag import/export capabilities in and between various PanelView applications for additional time-saving advantages. In addition, multiple applications can be open at the same time.



Among the PanelView 300 - 1400 terminals PanelView applications can be easily migrated using PanelBuilder software.



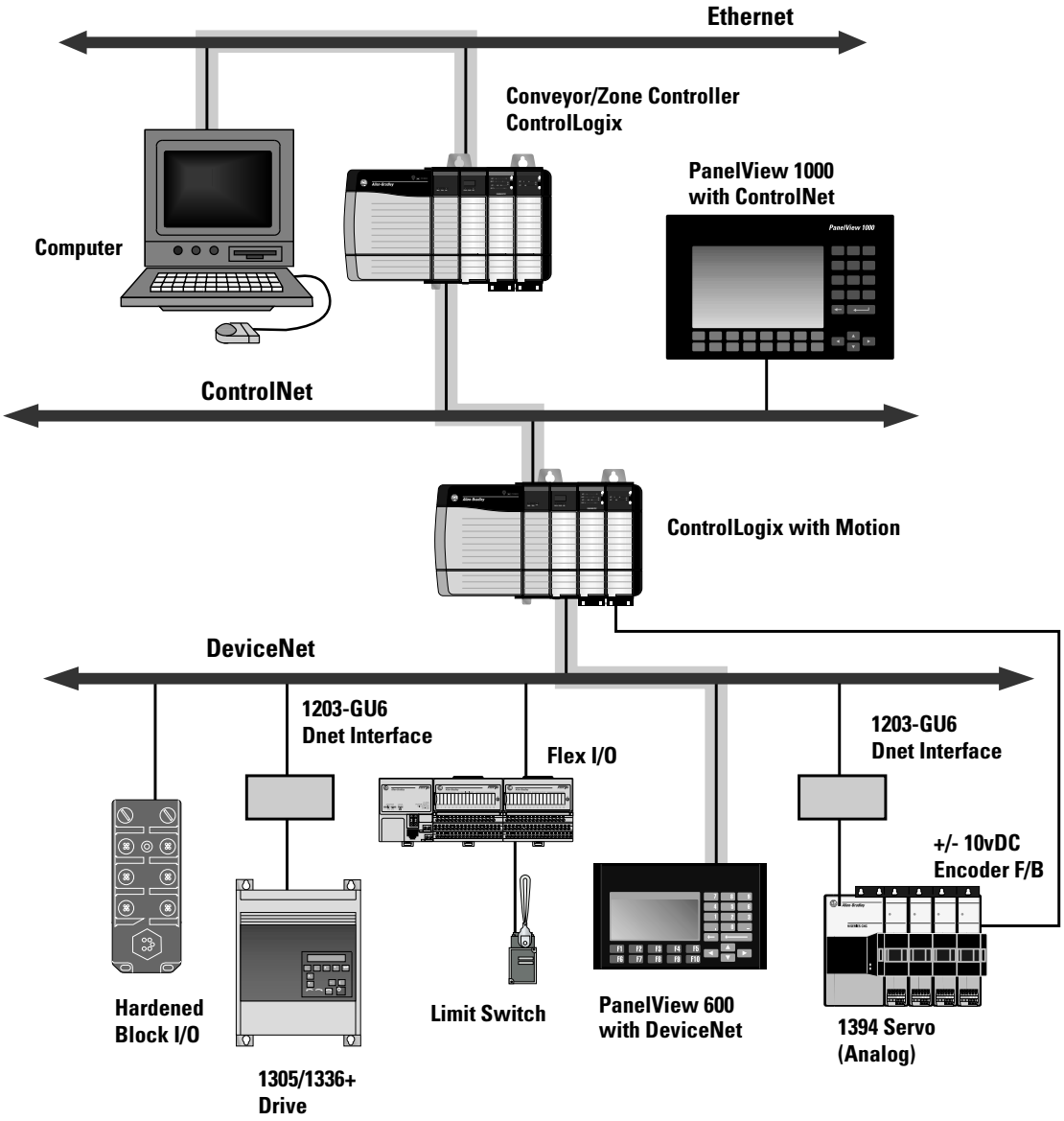
PanelBuilder development software can be used to configure PanelView 300, 550, 600, 900, 1000 and 1400 terminals.

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(Multi-Layer) Device Configuration: Application File Upload/Download

When processes change, PanelView Standard applications can also change. In the diagram below, PanelView Standard application files can be altered and downloaded using a ControlLogix 'Gateway' architecture.

Application files are modified in PanelBuilder32 and selected for download. PanelBuilder validates the changes, compiles, and compresses the files. Then using RSLinx, simply select the target destination and send. Application files are sent via the network through a ControlLogix gateway to the target destination. The PanelView application can then be employed without physically going to the terminal location.



Specifications

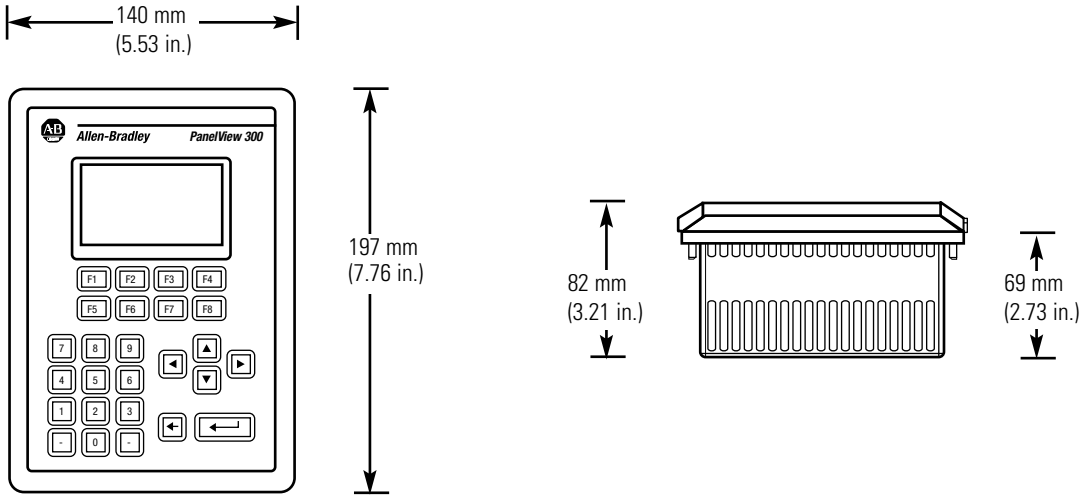
	PanelView 300	PanelView 550	PanelView 550T	PanelView 600
				
Display				
Type	Monochrome transflective LCD with integral LED backlight	Monochrome Liquid Crystal Display (LCD)	Monochrome Liquid Crystal Display (LCD)	Color Active Matrix Thin Film Transistor (TFT)
Size:	2.87" x1.67" (73mm x 42mm)	4.75" x 2.38" (120mm x 60mm)	4.75" x 2.38" (120x60mm)	4.54" x 3.4" (115mm x 86mm)
Replaceable Backlight	N/A –100,000 hour LED backlight life	Field replaceable backlight		
Operator Input	Keypad	Keypad or Combination Keypad and Touchscreen	Touchscreen Only	Keypad or Combination Keypad and Touchscreen
Touch Cells	N/A	128	128	128
Function Keys	8 (F1 - F8)	10 (F1 - F10)	N/A	10 (F1 - F10)
Real time Clock	ZBattery-backed clock timestamps critical data			
Application Memory	240K Flash (application screens)			
Electrical				
Communication Port	DeviceNet, DH-485, RS-232 (DH-485 protocol), DF1	DeviceNet, ControlNet,DH+, Remote I/O, DH-485, RS-232, (DH-485 protocol), DF1, Profibus, Modbus		
RS-232 Printer Port	1200, 2400, 9600, 19200 baud rate			
Power Requirements	AC: N/A DC: 18-32 Vdc	AC: 85-264 Vac DC: 18-32 Vdc	AC: N/A DC: 18-32 Vdc	AC: 85-264 Vac DC: 18-32 Vdc
Power Consumption	AC: N/A DC: 10 Watts max. (0.42A@24 Vdc)	AC: 45 VA max. DC: 18 Watts max. (0.75A@24 Vdc)	AC: N/A DC: 18 Watts max. (0.75A@24 Vdc)	AC: 60 VA max. DC: 34 Watts max. (1.9A@24 Vdc)
Programming	PanelBuilder32 (Windows based)			
Environmental				
Operating Temperature	0 to 55°C (32 to 131°F)			
Storage Temperature	-25 to 70°C (-13 to 158°F)	-20 to 70°C (-4 to 158°F)	-20 to 70°C (-4 to 158°F)	-25 to 70°C (-13 to 158°F)
Humidity	5 to 95%, noncondensing @ 0 to 30°C			
Ratings	NEMA Type 12, 13, 4x (indoor only), IP54, IP65			
Certifications	UL, CSA approved; Class I, Div 2 Groups A, B, C, D certified; CE marked, Demko pending	UL, CSA approved; Class 1, Div 2; Groups A, B, C, D certified; CE marked	UL, CSA approved; Class 1, Div 2; Groups A, B, C, D certified; CE marked	UL, cUL approved; Class 1, Div 2; Groups A, B, C, D certified; CE marked, Demko
Weight				
Keypad	1.484 lbs. (673 g)	2.7 lbs (1.2 kg)	N/A	4.4 lbs (2 kg)
Touch Screen	N/A	N/A	2.1 lbs. (0.93kg)	N/A
Dimensions				
Keypad	7.76" (h) x 5.51" (w) x 3.21" (d) (197mm x 140mm x 82mm)	6.6" (h) x 10.5" (w) x 4.2" (d) (167.6mm x 266.7mm x 106.7mm)	N/A	7.55"(h) x 11.40"(w) x 4.57"(d) (192mm x 290mm x 116mm)
Touch Screen	N/A	6.6"(h) x 10.5"(w) x 4.2"(d) (167.6mm x 266.7mm x 106.7mm)	5.92" (h) x 7.21" (w) x 3.2" (d) (150mm x 183mm x 81mm)	7.55"(h) x 11.40"(w) x 4.57"(d) (192mm x 290mm x 116mm)

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PanelView 600T	PanelView 900	PanelView 1000 Color	PanelView 1000 Gray Scale	PanelView 1400
				
Color Passive Matrix	Color Active Matrix Thin Film Transistor (TFT)	Color Active Matrix Thin Film Transistor (TFT)	Electroluminescent (EL)	Color CRT (SVGA)
4.54" x3.43" (115mm x 87mm)	6.73" x 5.12" (171mm x 130mm)	8.3" x 6.2" (211mm x 158mm)	8.3" x 6.2" (211mm x 158mm)	10.0" x 7.5" (255mm x 191mm)
Field replaceable backlight			N/A – emissive display	N/A
Touchscreen Only	Keypad or Touchscreen			
128	384	384	384	384
N/A	16 (F1 - F16)	16 (F1 - F16)	16 (F1 - F16)	21 (F1 - F21)
Battery-backed clock timestamps critical data				
240K Flash (application screens)	1Mg Flash (application screens + text & bitmaps)			
DeviceNet, ControlNet,DH+, Remote I/O, DH-485, RS-232, (DH-485 protocol), DF1, Profibus, Modbus				
1200, 2400, 9600, 19200 baud rate				
AC: N/A DC: 18-32 Vdc	AC: 85-264 Vac DC: 18-32 Vdc	AC: 85-264 Vac DC: 18-32 Vdc	AC: 85-264 Vac DC: 18-32 Vdc	AC: 85-264 Vac DC: N/A
AC: N/A DC: 17 Watts max. (0.71A@24 Vdc)	AC: 110 VA max. DC: 50 Watts max. (2.1A@24 Vdc)	AC: 70 VA max. DC: 27 Watts max. (1.1A@24 Vdc)	AC: 100 VA max. DC: 40 Watts max. (1.74A@24 Vdc)	AC: 200 VA max. DC: N/A
PanelBuilder32 (Windows based)				
0 to 50°C (32 to 122°F)	0 to 55°C (32 to 131°F)			
-25 to 70°C (-13 to 158°F)	-25 to 70°C (-13 to 158°F)	-25 to 70°C (-13 to 158°F)	-25 to 70°C (-13 to 158°F)	-40 to 85°C (-40 to 185°F)
5 to 95%, non-condensing @ 0 to 40°C	5 to 95%, noncondensing @ 0 to 30°C			
NEMA Type 12, 13, 4x (indoor only), IP54, IP65				
UL, CSA approved; Class I, Div 2 Groups A, B, C, D certified; CE marked.	UL, CSA approved; Class 1, Div 2; Groups A, B, C, D certified; CE marked	UL, CSA approved; Class 1, Div 2; Groups A, B, C, D certified; CE marked, Demko	UL, CSA approved; Class 1, Div 2; Groups A, B, C, D certified; CE marked, Demko	UL, cUL approved; CE marked
N/A	7 lbs (3.18 kg)	8.2 lbs (3.7 kg)	7.2 lbs (3.3 kg)	44.75 lbs. (20.3 kg)
2.3 lbs. (1 kg)	6.5 lbs (2.95 kg)	7.9 lbs (3.6 kg)	7.0 lbs (3.2 kg)	43.2 lbs. (19.6 kg)
N/A	9.8" (h) x 15.97" (w) x 4.4" (d) (248.9 mm x 405.6 mm x 111.8)	11" (h) x 17"(w) x 5" (d) (282mm x 423mm x 112mm)	11" (h) x 17" (w) x 5" (d) (282mm x 423mm x 112mm)	13.97" (h) x 19.0" (w) x 15.53" (d) (355mm x 483mm x 394mm)
6.00" (h) x 7.28" (w) x 3.80" (d) (152mm x 185mm x 96mm)	9.8"(h) x 13.24"(w) x 4.4"(d) (248.9 mm x 405.6 mm x 111.8)	11" (h) x 15" (w) x 5" (d) (282mm x 370mm x 112mm)	11"(h) x 15"(w) x 5"(d) (282mm x 370mm x 112mm)	13.97"(h) x 17.37"(w) x 15.53"(d) (355mm x 441mm x 394mm)

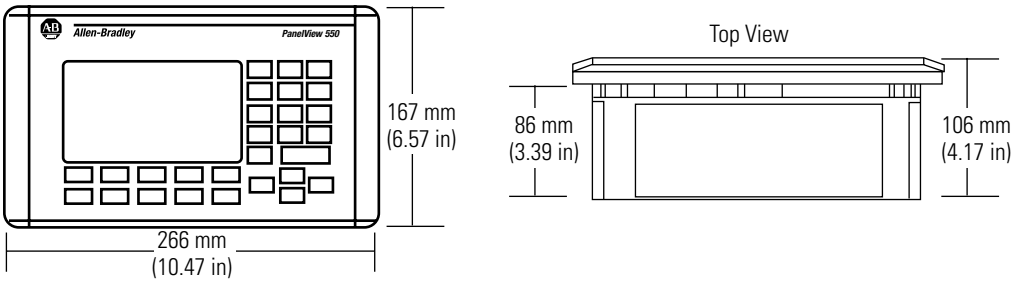
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PanelView 300

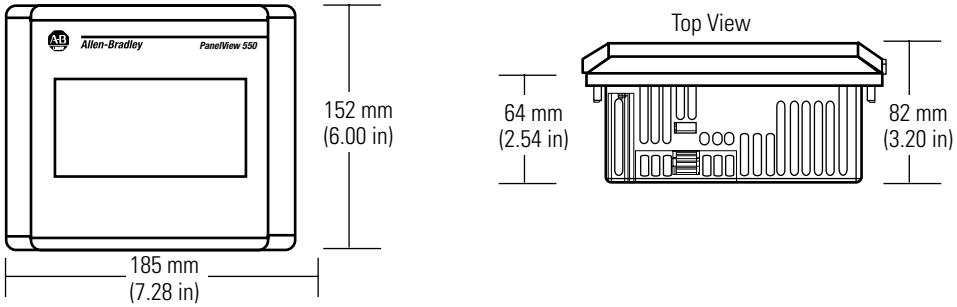


PanelView 550

PV550 Keypad, Keypad & Touch Screen Terminals



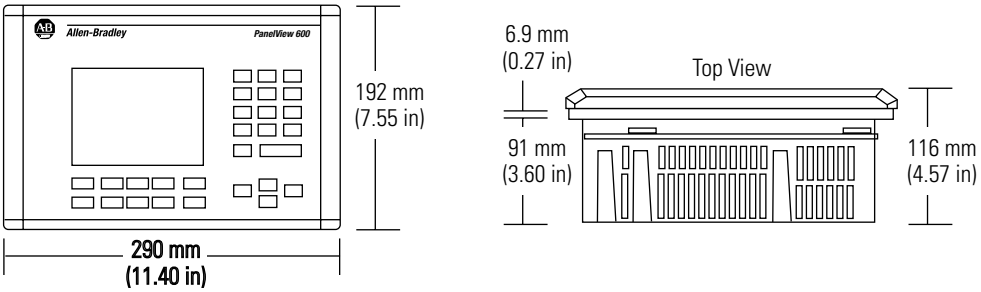
PV550 Touch Screen Terminals



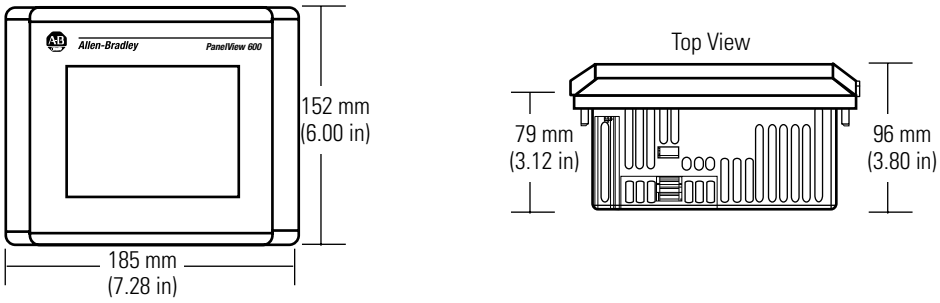
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PanelView 600

PV600 Keypad, Keypad & Touch Screen Terminals

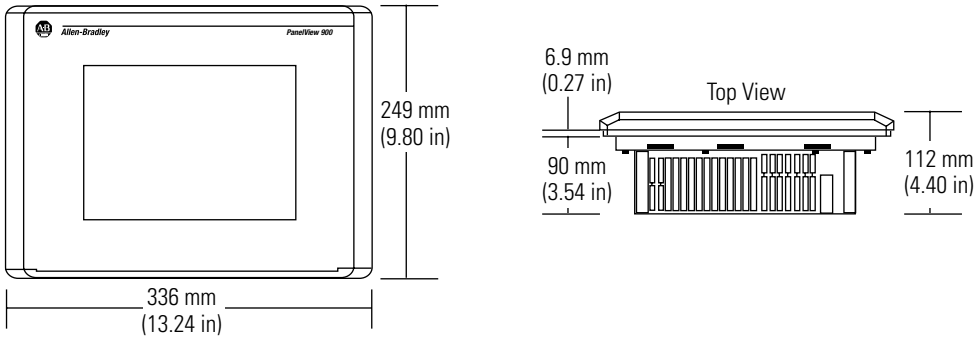


PV600 Touch Screen Terminals

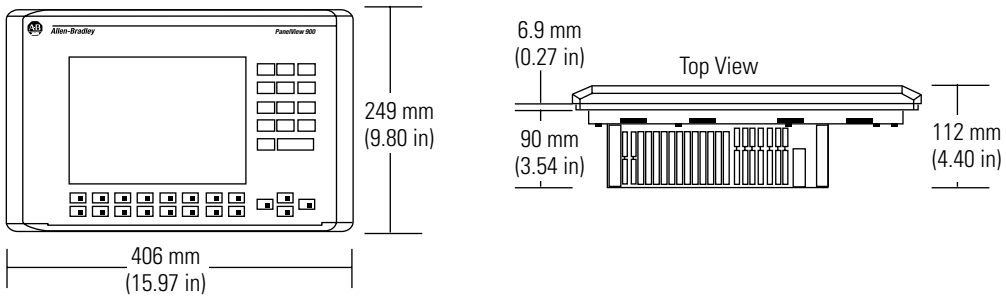


PanelView 900

PV900 Touch Terminal Mounting Dimensions



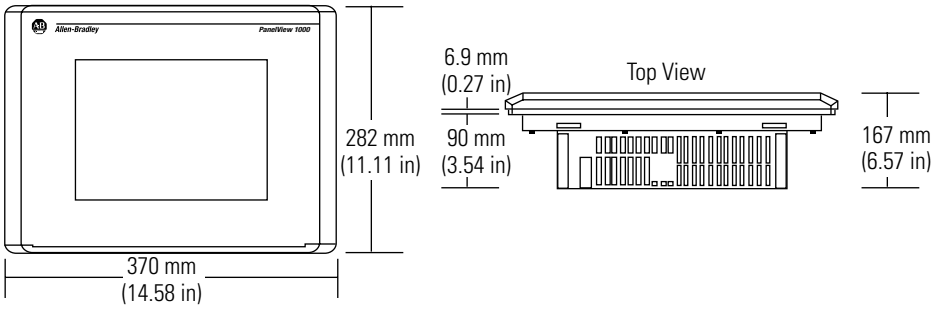
PV900 Keypad Terminal Mounting Dimensions



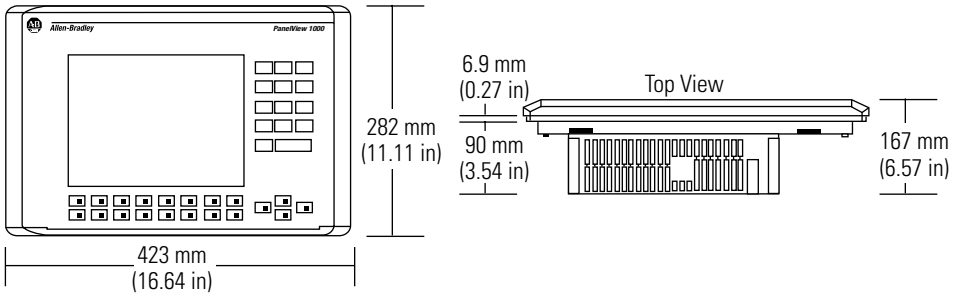
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PanelView 1000

PV1000 Touch Terminal Mounting Dimensions

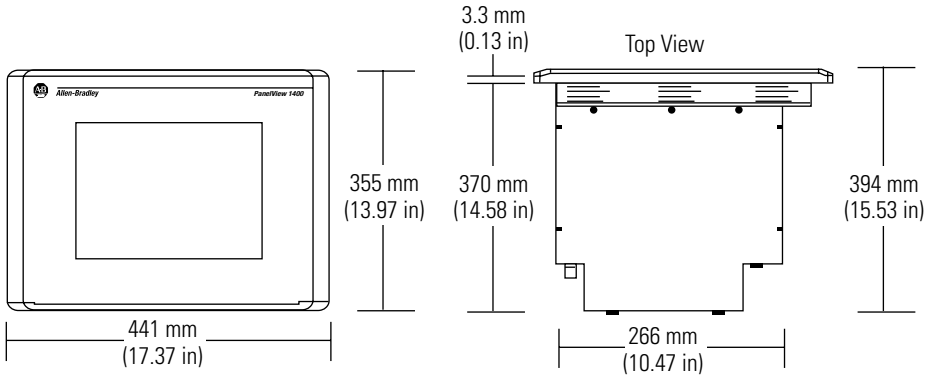


PV1000 Keypad Terminal Mounting Dimensions

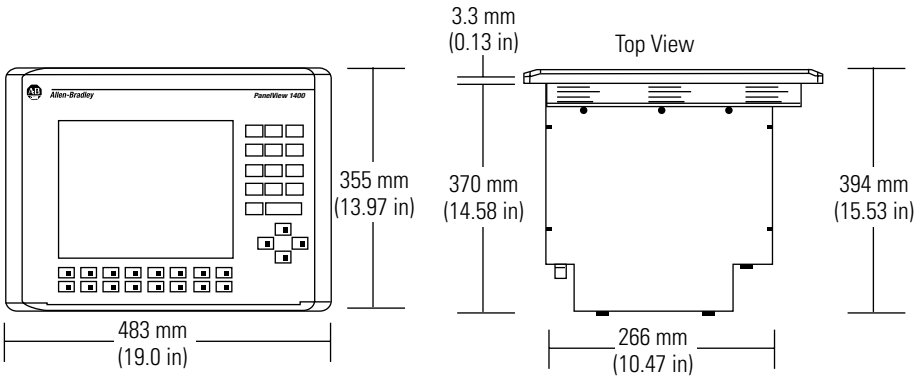


PanelView 1400

PV1400 Touch Terminal Mounting Dimensions

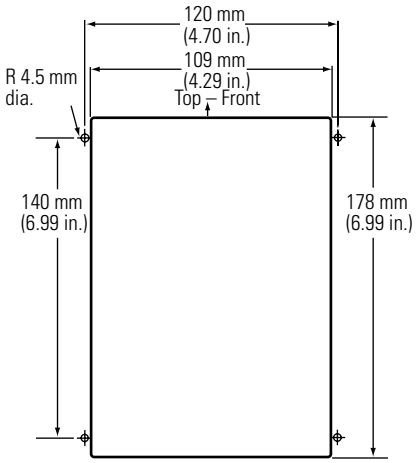


PV1400 Keypad Terminal Mounting Dimensions



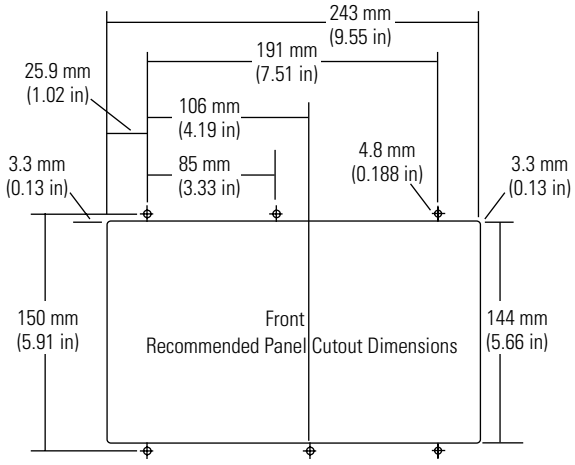
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PanelView 300

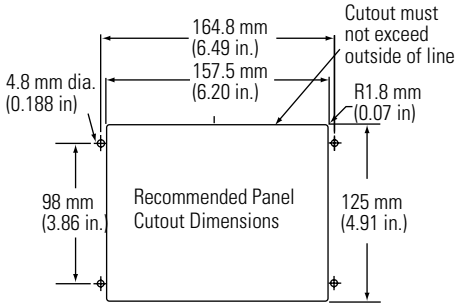


PanelView 550

PV550 Keypad, Keypad & Touch Screen Terminals

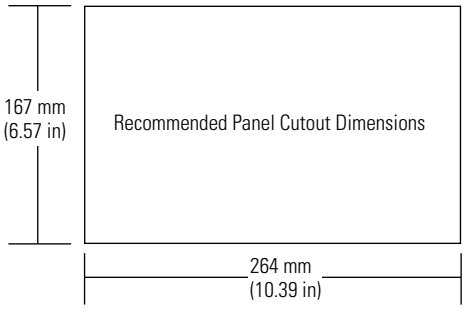


PV550 Touch Screen Terminals

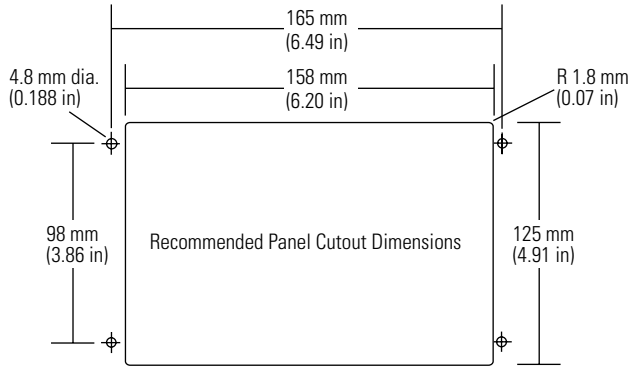


PanelView 600

PV600 Keypad, Keypad & Touch Screen Terminals



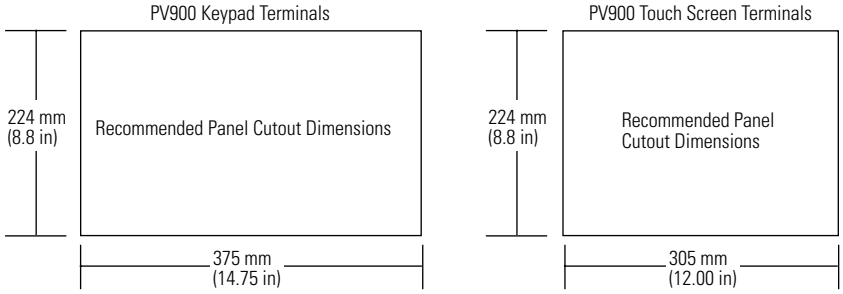
PV600 Touch Screen Terminals



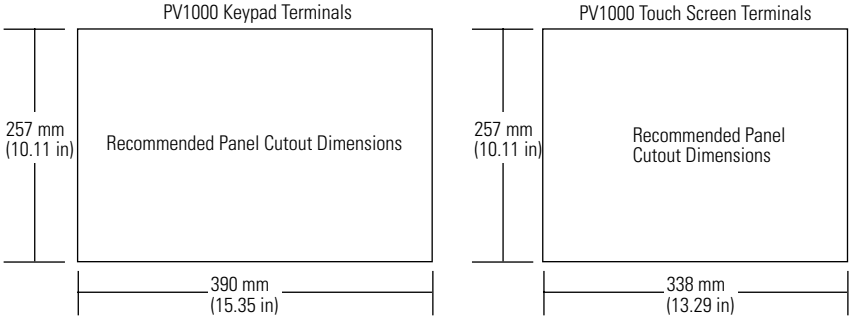
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PanelView 900/1000

PV900 Panel Cutout Dimensions

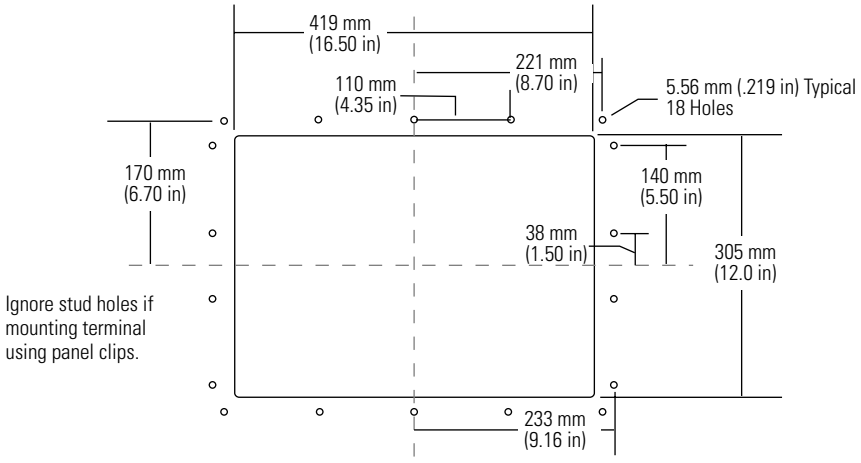


PV1000 Panel Cutout Dimensions

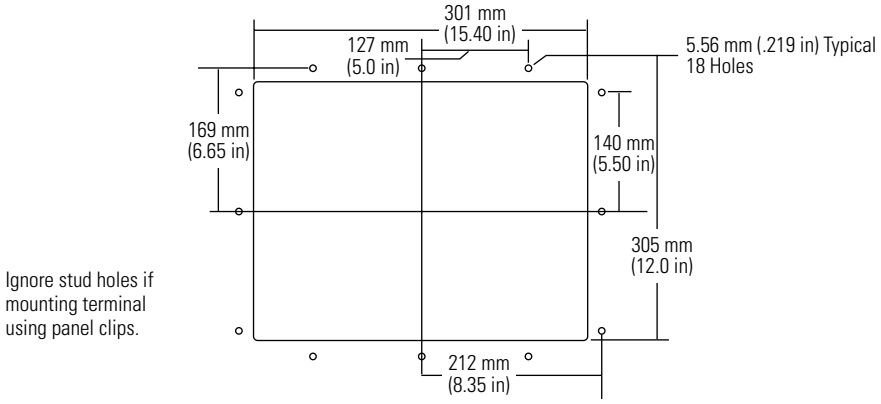


PanelView 1400

PV1400 Keypad Terminals



PV1400 Touchscreen Terminals



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PanelView 300 Monochrome Terminals	Cat. No. Key
PanelView 300 Monochrome, DH-485 Communication Ports [4]	2711-K3A2L1
PanelView 300 Monochrome, RS-232 (DH-485) Communication Port	2711-K3A5L1
PanelView 300 Monochrome, DeviceNet Communication & RS-232 Printer Port	2711-K3A10L1
PanelView 300 Monochrome, DF1 Communication	2711-K3A17L1

PanelView 550 Monochrome Terminals	Cat. No. Key[1 2 3]	Cat. No. Key & Touch[1 2 3]	Cat. No. Touch[1]
PanelView 550 Monochrome, DH-485 Communication Ports [4]	2711-K5A2	2711-B5A2	2711-T5A2L1
PanelView 550 Monochrome, DH-485 Communication & RS-232 Printer Port [4]	2711-K5A3	2711-B5A3	2711-T5A3L1
PanelView 550 Monochrome, RS-232 (DH-485) Communication Port	2711-K5A5	2711-B5A5	2711-T5A5L1
PanelView 550 Monochrome, RS-232 (DH-485) Communication & RS-232 Port	2711-K5A9	2711-B5A9	2711-T5A9L1
PanelView 550 Monochrome, Remote I/O Communication & RS-232 Printer Port	2711-K5A1	2711-B5A1	2711-T5A1L1
PanelView 550 Monochrome, DH+ Communication & RS-232 Printer Port	2711-K5A8	2711-B5A8	2711-T5A8L1
PanelView 550 Monochrome, DeviceNet Communication & RS-232 Printer Port	2711-K5A10	2711-B5A10	2711-T5A10L1
PanelView 550 Monochrome, Profibus Communication & RS-232 Printer Port	2711-K5A12	2711-B5A12	2711-T5A12L1
PanelView 550 Monochrome, Modbus Communication & RS-232 Printer Port	2711-K5A14	2711-B5A14	2711-T5A14L1
PanelView 550 Monochrome, ControlNet Communication & RS-232 Printer Port	2711-K5A15	2711-B5A15	2711-T5A15L1
PanelView 550 Monochrome, DF1 Communication & RS-232 Printer Port	2711-K5A16	2711-B5A16	2711-T5A16L1

PanelView 600 Color Terminals	Cat. No. Key[1]	Cat. No. Key & Touch[1]	Cat. No. Touch[1]
PanelView 600 Color, DH-485 Communication Ports [4]	2711-K6C2	2711-B6C2	2711-T6C2L1
PanelView 600 Color, DH-485 Communication & RS-232 Printer Port [4]	2711-K6C3	2711-B6C3	2711-T6C3L1
PanelView 600 Color, RS-232 (DH-485) Communication Port	2711-K6C5	2711-B6C5	2711-T6C5L1
PanelView 600 Color, RS-232 (DH-485) Communication & RS-232 Printer Port	2711-K6C9	2711-B6C9	2711-T6C9L1
PanelView 600 Color, Remote I/O Communication & RS-232 Printer Port	2711-K6C1	2711-B6C1	2711-T6C1L1
PanelView 600 Color, DH+ Communication & RS-232 Printer Port	2711-K6C8	2711-B6C8	2711-T6C8L1
PanelView 600 Color, DeviceNet Communication & RS-232 Printer Port	2711-K6C10	2711-B6C10	2711-T6C10L1
PanelView 600 Color, Profibus Communication & RS-232 Printer Port	2711-K6C12	2711-B6C12	2711-T6C12L1
PanelView 600 Color, Modbus Communication & RS-232 Printer Port	2711-K6C14	2711-B6C14	2711-T6C14L1
PanelView 600 Color, ControlNet Communication & RS-232 Printer Port	2711-K6C15	2711-B6C15	2711-T6C15L1
PanelView 600 Color, DF1 Communication & RS-232 Printer Port	2711-K6C16	2711-B6C16	2711-T6C16L1

PanelView 900 Color Terminals	Cat. No. Key[1]	Cat. No. Touch[1]
PanelView 900 Color, DH-485 Communication & RS-232 Printer Port [4]	2711-K9C3	2711-T9C3
PanelView 900 Color, RS-232 (DH-485) Communication & RS-232 Printer Port	2711-K9C9	2711-T9C9
PanelView 900 Color, Remote I/O Communication & RS-232 Printer Port	2711-K9C1	2711-T9C1
PanelView 900 Color, DH+ Communication & RS-232 Printer Port	2711-K9C8	2711-T9C8
PanelView 900 Color, DeviceNet Communication & RS-232 Printer Port	2711-K9C10	2711-T9C10
PanelView 900 Color, Profibus Communication & RS-232 Printer Port	2711-K9C12	2711-T9C12
PanelView 900 Color, Modbus Communication & RS-232 Printer Port	2711-K9C14	2711-T9C14
PanelView 900 Color, ControlNet Communication & RS-232 Printer Port	2711-K9C15	2711-T9C15
PanelView 900 Color, DF1 Communication & RS-232 Printer Port	2711-K9C16	2711-T9C16

PanelView 1000 Grayscale Terminals	Cat. No. Key[1]	Cat. No. Touch[1]
PanelView 1000 Grayscale, DH-485 Communication & RS-232 Printer Port [4]	2711-K10G3	2711-T10G3
PanelView 1000 Grayscale, RS-232 (DH-485) Communication & RS-232 Port	2711-K10G9	2711-T10G9
PanelView 1000 Grayscale, Remote I/O Communication & RS-232 Printer Port	2711-K10G1	2711-T10G1
PanelView 1000 Grayscale, DH+ Communication & RS-232 Printer Port	2711-K10G8	2711-T10G8
PanelView 1000 Grayscale, DeviceNet Communications & RS-232 Printer Port	2711-K10G10	2711-T10G10
PanelView 1000 Grayscale, Profibus Communications & RS-232 Printer Port	2711-K10G12	2711-T10G12
PanelView 1000 Grayscale, Modbus Communications & RS-232 Printer Port	2711-K10G14	2711-T10G14
PanelView 1000 Grayscale, ControlNet Communications & RS-232 Printer Port	2711-K10G15	2711-T10G15
PanelView 1000 Grayscale, DF1 Communications & RS-232 Printer Port	2711-K10G16	2711-T10G16

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PanelView 1000 Color Terminals	Cat. No. Key [1]	Cat. No. Touch [1]
PanelView 1000 Color, DH-485 Communication & RS-232 Printer Port [4]	2711-K10C3	2711-T10C3
PanelView 1000 Color, RS-232 (DH-485) Communication & RS-232 Printer Port	2711-K10C9	2711-T10C9
PanelView 1000 Color, Remote I/O Communication & RS-232 Printer Port	2711-K10C1	2711-T10C1
PanelView 1000 Color, DH+ Communication & RS-232 Printer Port	2711-K10C8	2711-T10C8
PanelView 1000 Color, DeviceNet Communication & RS-232 Printer Port	2711-K10C10	2711-T10C10
PanelView 1000 Color, Profibus Communication & RS-232 Printer Port	2711-K10C12	2711-T10C12
PanelView 1000 Color, Modbus Communication & RS-232 Printer Port	2711-K10C14	2711-T10C14
PanelView 1000 Color, ControlNet Communication & RS-232 Printer Port	2711-K10C15	2711-T10C15
PanelView 1000 Color, DF1 Communication & RS-232 Printer Port	2711-K10C16	2711-T10C16

PanelView 1400 Color Terminals	Cat. No. Key	Cat. No. Touch
PanelView 1400 Color, DH-485 Communication & RS-232 Printer Port [4]	2711-K14C3	2711-T14C3
PanelView 1400 Color, RS-232 (DH-485) Communication & RS-232 Printer Port	2711-K14C9	2711-T14C9
PanelView 1400 Color, Remote I/O Communication & RS-232 Printer Port	2711-K14C1	2711-T14C1
PanelView 1400 Color, DH+ Communication & RS-232 Printer Port	2711-K14C8	2711-T14C8
PanelView 1400 Color, DeviceNet Communication & RS-232 Printer Port	2711-K14C10	2711-T14C10
PanelView 1400 Color, Profibus Communication & RS-232 Printer Port	2711-K14C12	2711-T14C12
PanelView 1400 Color, Modbus Communication & RS-232 Printer Port	2711-K14C14	2711-T14C14
PanelView 1400 Color, ControlNet Communication & RS-232 Printer Port	2711-K14C15	2711-T14C15
PanelView 1400 Color, DF1 Communication & RS-232 Printer Port	2711-K14C16	2711-T14C16

Software	Cat. No.
PanelBuilder32 Configuration Software for the PanelView Operator Terminals	2711-ND3

1 Add L1 to the Catalog Number to order a PanelView 550, 600, 900 or 1000 terminal with DC power instead of AC power (for example, 2711-K10C3L1). PanelView 550 Touch, PanelView 600 Touch, and PanelView 300 terminals are 24Vdc only.

2 Add L2 to the Catalog Number of the PanelView 550/600 Keypad or Keypad & Touch terminal to order a stainless steel terminal with AC power (for example, 2711-K5A5L2)

3 Add L3 to the Catalog Number the PanelView 550 Keypad or Keypad & Touch terminal to order a stainless steel terminal with DC power (for example, 2711-B5A10L3).

4 Requires Interface Converter (Catalog No. 1747-PIC) and Cable (Catalog No. 1747-C10 or -C20) for application transfers using the PanelBuilder32 Software or the File Transfer Utility. Also see Power Supply (Catalog No. 1747-NP1).

Accessories and Replacement Parts	Cat. No.
Memory Cards (used for application downloads, external fonts, firmware upgrades)	
256 Kbyte Flash Memory Card [2]	2711-NM11
1M PC Flash Memory Card [2]	2711-NM12
2M PC Flash Memory Card [2]	2711-NM13
8M Flash ATA Memory Card [1]	2711-NM28
16M Flash ATA Memory Card [1]	2711-NM216
Memory Card Retainer for PanelView 550, 600, 900, 1000	2711-NMCC
Memory Card Retainer for PanelView 550 Touch Only	2711-NMCD
Memory Card Retainer for PanelView 300/600 Touch Only	2711-NMCE

1 Use on any terminal with 3.xx firmware or later

2 Contact factory for availability

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Accessories and Replacement Parts	Cat. No.
Function Key Legend Kits	
Function Key Legend Strips for the PanelView 300 Terminal [2]	2711-NF9
Function Key Legend Strips for the PanelView 550 Terminal	2711-NF1
Function Key Legend Strips for the PanelView 600 Terminal	2711-NF4
Function Key Legend Strip for the PanelView 900 Color Terminal	2711-NF2C
Function Key Legend Strip for the PanelView 1000 Grayscale and Color Terminals	2711-NF6
Function Key Legend Strip for the PanelView 1400 Color Terminal	2711-NF5
Mounting Hardware	
Replacement Mounting Clips for the PanelView 600/900/1000 Terminals	2711-NP2
Replacement Mounting Clips for the PanelView 1400 Terminal	2711-NP1
Mounting Studs for the PanelView 1400 Terminal	2711-NP3
Real-Time Clock Replacement	
Real-Time Clock for PanelView 550 Terminals (Series A through Series D)	2711-NB2
Real-Time Clock for PanelView 550 (Series E or later), 600, 900, 1000, 1400 Terminals	2711-NB3
Real-Time Clock for PV300 and PV550/PV600 Touch Screen Only Terminals	2711-NB4
Backlights	
Replacement Backlight Lamp for all PanelView 550 Terminals.	2711-NL1
Replacement Backlight Lamp for PanelView 600 Terminal	2711-NL3
Replacement Backlight Lamp for PanelView 900 Color Terminal	2711-NL2
Replacement Backlight Lamp for PanelView 1000 Color Terminal Series A	2711-NL4
Replacement Backlight Lamp for PanelView 1000 Color Terminal Series B or Later [2]	2711-NL6
Antiglare Overlays	
Antiglare Overlay for the PanelView 300 Terminal (Qty 3) [2]	2711-NV8
Antiglare Overlay for the PanelView 550 Keypad or Keypad & Touch Terminal (Qty 3)	2711-NV4
Antiglare Overlay for the PanelView 550/600 Touch Screen Only Terminals (Qty 3)	2711-NV4T
Antiglare Overlay for the PanelView 600 Terminal (Qty 3)	2711-NV5
Antiglare Overlay for the PanelView 900 Keypad Terminal (Qty 3)	2711-NV3K
Antiglare Overlay for the PanelView 900 Touch Screen Terminal (Qty 3)	2711-NV3T
Antiglare Overlay for the PanelView 1000 Keypad Terminal (Qty 3)	2711-NV6K
Antiglare Overlay for the PanelView 1000 Touch Screen Terminal (Qty 3)	2711-NV6T
Antiglare Overlay for the PanelView 1400 Keypad Terminal (Qty 3)	2711-NV7K
Antiglare Overlay for the PanelView 1400 Touch Screen Terminal (Qty 3)	2711-NV7T
Power Supply	
Wallmount power supply provides power to 1747-PIC Converter when SLC or network is not connected. 105 to 132V ac input.. Separate operating/programming cable is required.	1747-NP1
Cables	
Personal Computer Interface Converter converts RS-232 signals to/from DH-485 signals.	1747-PIC
6 foot (1.83 meter0 DH-485 Operating/Programming Cable (for 2711-xxA2,-xxA3, -xxC3)	1747-C10
1 foot (0.30 meter) DH-485 Operating/Programming Cable (for 2711-xxA2,-xxA3,-xxC3)	1747-C11
20 foot (6.1 meter) DH-485 Operating/Programming Cable (for 2711-xxA2,-xxA3,-xxC3)	1747-C20
16.4 foot (5 meter) RS-232 Operating/Programming Cable (for 2711-xxA5,-xxA9,-xxC9)[1]	2711-NC13
32.7 foot (10 meter) RS-232 Operating/Programming Cable (for 2711-xxA5,-xxA9,-xxC9)[1]	2711-NC14
10 foot (3 meter) RS-232 Operating/Programming Cable (for 2711-xxA5,-xxA9,-xxC9)[1]	2706-NC13

1 Cable also used on RS-232 port of 2711-xxA1,-xxA3,-xxA8,-xxA9,-xxA10,-xxC1,-xxC3,-xxC8,-xxC9,-xxC10 terminals for transferring applications and/or printing

2 Contact factory for availability

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