

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official Rockwell Automation pages

ALLEN-BRADLEY PANELVIEW PLUS 6

2711P-T12C4A8

PANELVIEW PLUS 6 1250 TERMINAL

Selected official technical data: environment, logic and display specifications.

PanelView Plus 6 Specifications

Catalog Numbers 2711P-K7C4Dx, 2711P-T7C4Dx, 2711P-B7C4Dx, 2711P-K7C4Ax, 2711P-T7C4Ax, 2711P-B7C4Ax, 2711P-K10C4Dx, 2711P-T10C4Dx, 2711P-B10C4Dx, 2711P-K10C4Ax, 2711P-T10C4Ax, 2711P-B10C4Ax, 2711P-K12C4Dx, 2711P-T12C4Dx, 2711P-B12C4Dx, 2711P-K12C4Ax, 2711P-T12C4Ax, 2711P-B12C4Ax, 2711P-K15C4Dx, 2711P-T15C4Dx, 2711P-B15C4Dx, 2711P-K15C4Ax, 2711P-T15C4Ax, 2711P-B15C4Ax, 2711P-K4M5A8, 2711P-K4M5D8, 2711P-K4M20A8, 2711P-K4M20D8, 2711P-K4C5A8, 2711P-B4C5A8, 2711P-K4C5D8, 2711P-B4C5D8, 2711P-K4C20A8, 2711P-B4C20A8, 2711P-K4C20D8, 2711P-B4C20D8, 2711P-K6M5A8, 2711P-T6M5A8, 2711P-B6M5A8, 2711P-K6M5D8, 2711P-T6M5D8, 2711P-B6M5D8, 2711P-K6M20A8, 2711P-T6M20A8, 2711P-B6M20A8, 2711P-K6M20D8, 2711P-T6M20D8, 2711P-B6M20D8, 2711P-K6C5Ax, 2711P-T6C5Ax, 2711P-B6C5Ax, 2711P-K6C5Dx, 2711P-T6C5Dx, 2711P-B6C5Dx, 2711P-K6C20Ax, 2711P-T6C20Ax, 2711P-B6C20Ax, 2711P-K6C20Dx, 2711P-T6C20Dx, 2711P-B6C20Dx, 2711PC-K4M20D8, 2711PC-B4C20D8, 2711PC-T6M20D8, 2711PC-T6C20D8, 2711PC-T10C4D8

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PanelView™ Plus 6 terminals are used for applications with a need to monitor, control, and display information graphically, allowing operators to quickly understand the status of their application. All PanelView Plus 6 applications are programmed with FactoryTalk® View Studio for Machine Edition (ME) software and have FactoryTalk View ME Station (runtime) software that is installed on each terminal.

This family provides a broad range of rugged terminals that provide these features:

- Premier integration with the Integrated Architecture™ platform
- Scalable 4-inch to 15-inch displays with touch screen, keypad, or both for input
- Common development software
- Real-time monitoring of a terminal's displays via a web browser (7-inch to 15-inch displays)

Use this document along with the Visualization Solutions Selection Guide, publication [VIEW-SG001](#), to make decisions on the visualization solutions that are best suited for your system requirements.

LISTEN.
THINK.
SOLVE.

Summary of Changes

This publication contains new and updated information as indicated in the following table.

Topic	Pages
Updated the power supply catalog number.	Throughout
Updated the Vibration line in the Environmental Specifications table for the power supply.	12
Updated the Technical Specifications and Dimensions tables for the power supply.	13
Added catalog numbers for the new SDHC cards.	4...4

Environmental Specifications

The environmental certifications in [Table 1](#) apply to these PanelView Plus 6 terminals:

- PanelView Plus 6 - 700...1500 terminals including logic, communication modules, and display modules
- PanelView Plus 6 - 400 and 600 terminals
- PanelView Plus 6 Compact 400, 600, and 1000 terminals

Table 1 - Environmental Specifications - PanelView Plus 6 Terminals

Attribute	2711P, 2711PC
Temperature, operating	0...55 °C (32...131 °F)
Temperature, nonoperating	-25...+70 °C (-13...+158 °F)
Heat dissipation 400, 600 700, 1000, 1250, 1500	85 BTU/hr 240 BTU /hr
Relative humidity	5...95% noncondensing (5...90% noncondensing only for low reflective terminal, catalog number 2711P-B4C20D8-LR)
Vibration	10...57 Hz, 0.012 peak-to-peak displacement 57...500 Hz, 2 g peak acceleration
Altitude, operating	2000 m (6561 ft)
Shock, operating	15 g at 11 ms
Shock, nonoperating	30 g at 11 ms
Enclosure ratings 400 and 600 700...1500	NEMA/UL Type 12, 13, 4X (indoor use only), and IEC IP66 NEMA/UL Type 12, 13, 4X (indoor use only) ⁽¹⁾ , and IEC IP54, IP65
Airborne contaminants	For PanelView Plus 6 conformal-coated PCBA level products with catalog numbers that end in K, these specifications apply: ANSI/ISA S71.04 - 1985 Severity Level G3 EN60654-4: 1998 Class 3

(1) The 2711P-RDT12H is rated for NEMA 4x Outdoor use.

PanelView Plus 6 - 700...1500 Terminals

The PanelView Plus 6 - 700...1500 terminals use modular components that allow for flexible configuration, installation, and upgrades. Factory-assembled terminals, with a display module and logic module, are available as one catalog number or as separate components for field installation. Optional communication modules can be ordered for additional network communication.

The field-replaceable 6.5, 10.4, 12.1, and 15.1-in. flat-panel color displays come with keypad, touch screen, or keypad/touch-screen input. Other display options are available to meet more stringent environmental conditions:

- High-bright display module for outdoor applications
- Conformal-coated displays
- Marine-certified displays and logic modules
- Displays with built-in antiglare overlays

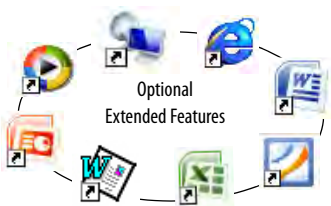


For a complete listing of catalog number selections, refer to the Visualization Solutions Selection Guide, publication [VIEW-SG001](#).

The high-performance logic module runs the Windows CE 6.0 operating system, that allows you to run HMI applications with the ability to also access the desktop. For users with more complex application requirements, the platform and logic module can be ordered with optional, extended features and file viewers.

Table 3 - Logic Module Features

Features	Description
High memory capacity	512 MB RAM, 512 MB nonvolatile memory (approx. 79 MB free user memory)
Power input	AC or DC
Network interface	For optional Ethernet, DH+™, DH-485, or ControlNet communication module
Communication ports	Ethernet, RS-232 serial
USB ports	2 USB host ports for connecting a USB mouse, keyboard, printer, and USB flash drives that are hot swappable
Secure Digital (SD) card slot	Hot-swappable card slot supports 1784-SDx and 1784-SDHCx SD cards for transferring files, upgrading firmware, or logging data
Operating system	All terminals run the Windows CE 6.0 operating system (OS) providing OS functionality that is needed for most users needs: • FTP server • VNC client/server • PDF reader • Active X controls • Third-party device support Additional functionality is available by ordering terminals with optional, extended features: • Internet Explorer web browser • Remote desktop connection • Media player • Microsoft® file viewers for PowerPoint, Excel, and Word • WordPad text editor
FactoryTalk View software	• FactoryTalk View Machine Edition Station runtime, version 6.0 or later, is preloaded and activated on each terminal • Single license support for FactoryTalk ViewPoint software, version 1.2 or later, gives remote users access to a terminal's displays via standard web browser • HMI applications are developed with FactoryTalk View Studio for Machine Edition software, which is purchased separately
Reset and default switches	Provide easy access to diagnostic and repair operations



Technical Specifications

[Table 4](#) provides technical specifications for PanelView Plus 6 - 700...1500 terminals.

Table 4 - Technical Specifications - PanelView Plus 6 - 700...1500 Terminals

Attribute	700 Color ⁽²⁾ 2711P-K7C4Dx, 2711P-T7C4Dx, 2711P-B7C4Dx, 2711P-K7C4Ax, 2711P-T7C4Ax, 2711P-B7C4Ax	1000 Color ⁽²⁾ 2711P-K10C4Dx, 2711P-T10C4Dx, 2711P-B10C4Dx, 2711P-K10C4Ax, 2711P-T10C4Ax, 2711P-B10C4Ax	1250 Color ⁽²⁾ 2711P-K12C4Dx, 2711P-T12C4Dx, 2711P-B12C4Dx, 2711P-K12C4Ax, 2711P-T12C4Ax, 2711P-B12C4Ax	1500 Color ⁽²⁾ 2711P-K15C4Dx, 2711P-T15C4Dx, 2711P-B15C4Dx, 2711P-K15C4Ax, 2711P-T15C4Ax, 2711P-B15C4Ax
Operator input	Keypad, Touch, or Key/Touch	Keypad, Touch, or Key/Touch	Keypad, Touch, or Key/Touch	Keypad, Touch, or Key/Touch
Display type	Color active-matrix TFT	Color active-matrix TFT	Color active-matrix TFT	Color active-matrix TFT
Display size	6.5 in.	10.4 in.	12.1 in.	15 in.
Display area (WxH)	132 x 99 mm (5.2 x 3.9 in.)	211 x 158 mm (8.3 x 6.2 in.)	246 x 184 mm (9.7 x 7.2 in.)	304 x 228 mm (12.0 x 9.0 in.)
Resolution	640 x 480, 18-bit color graphics		800 x 600, 18-bit color graphics	1024 x 768, 18-bit color graphics
Luminance	300 cd/m ² (Nits)		300 cd/m ² (Nits) ⁽³⁾	
Backlight	CCFL, 50,000 hours min at 25 °C (77 °F), field replaceable Backlight for 1250 high-bright display module is not replaceable			
Touch screen	8-wire analog resistive Actuation: 1 million presses; operating force: 10...110 g			
Keypad description	Stainless-steel membrane Numeric, navigation, and function keys Actuation: 1 million presses; operating force: 340 g			
Keypad function keys	22 function keys F1...F10 and K1...K12	32 function keys F1...F16 and K1...K16	40 function keys F1...F20 and K1...K20	40 function keys F1...F20 and K1...K20
Battery (real-time clock)	Battery-backed clock timestamps critical data, accuracy is ±2 minutes per month Battery life: 4 year min at 25 °C (77 °F) Field-replaceable: cat. no. 2711P-RY2032 or equivalent CR2032 coin-cell lithium battery			
Memory	512 MB RAM, 512 MB nonvolatile memory (approx. 79 MB free user memory)			
External storage	Secure Digital (SD) card, cat. no.1784-SDx and 1784-SDHCx, supported by hot-swappable SD card slot USB flash drives that is supported by high-speed, hot-swappable, 2.0 USB host ports			
Operating system	Windows CE 6.0 operating system with or without extended features and Microsoft Office file viewers			
Software	FactoryTalk View Machine Edition software, version 6.0 or later FactoryTalk ViewPoint software, version 1.2 or later			
Communication ports	Ethernet (10/100 Mbps, Auto-MDI/MDI-X), RS-232, (2) USB host, Network interface for optional Ethernet, DH+/-DH-485, or ControlNet (scheduled or unscheduled) communication module			
Input voltage, DC	18...32V DC (24V DC nom)			
Power consumption, DC	70 W max (2.9 A at 24V DC), 39 W typical (1.6 A at 24V DC)			
Recommended external power supply	Cat. No. 1606-XLE120E, safety extra low voltage (SELV) or protected extra-low voltage (PELV) power supply for 700...1500 DC-powered terminals; 100...240V AC, 250VA max			
Input voltage, AC	100...240V AC, 50...60 Hz			
Power consumption, AC	160VA max, 65VA typical			
Weight, approx ⁽¹⁾	Keypad: 1.8 kg (4.1 lb) Touch: 1.7 kg (3.7 lb)	Keypad: 2.8 kg (6.2 lb) Touch:2.5 kg (5.6 lb)	Keypad: 3.4 kg (7.5 lb) Touch:3.2 kg (7.0 lb)	Keypad: 4.5 kg (9.9 lb) Touch:4.2 kg (9.2 lb)
Dimensions (HxWxD), approx ⁽¹⁾	Keypad: 193 x 290 x 55 mm 7.58 x 11.40 x 2.18 in. Touch:179 x 246 x 55 mm 7.04 x 9.68 x 2.18 in.	Keypad: 248 x 399 x 55 mm 9.77 x 15.72 x 2.18 in. Touch:248 x 329 x 55 mm 9.77 x 12.97 x 2.18 in.	Keypad: 282 x 416 x 55 mm 11.12 x 16.36 x 2.18 in. Touch: 282 x 363 x 55 mm 11.12 x 14.30 x 2.18 in.	Keypad:330 x 469 x 65 mm 12.97 x 18.46 x 2.55 in. Touch: 330 x 416 x 65 mm 12.97 x 16.37 x 2.55 in.
Cutout dimensions (HxWxD)	Keypad: 167 x 264 mm 6.57 x 10.39 in. Touch:154 x 220 mm 6.08 x 8.67 in.	Keypad: 224 x 375 mm 8.8 x 14.75 in. Touch:224 x 305 mm 8.8 x 12.0 in.	Keypad: 257 x 390 mm 10.11 x 15.35 in. Touch:257 x 338 mm 10.11 x 13.29 in.	Keypad: 305 x 419 mm 12.0 x 16.5 in. Touch:305 x 391 mm 12.0 x 15.4 in.

(1) Weights and dimensions do not include the communication module. Add 95 g (0.21 lb) to the weight for a communication module.

(2) Replace x in catalog number with an 8 or 9. For catalog numbers ending in 9, the Windows CE operating system includes extended features and file viewers; catalog numbers ending in 8 do not support these features.

(3) The 1250 high-bright display module, cat. no. 2711P-RD12H, for outdoor operations, has a luminance of 1000 cd/m² (nit). The backlight is not replaceable.

Terminal Dimensions

[Table 5](#) provides overall dimensions and cutout dimensions for the PanelView Plus 6 - 700...1500 terminals. The 1000 touch or keypad terminal is shown for reference. Other models look similar.

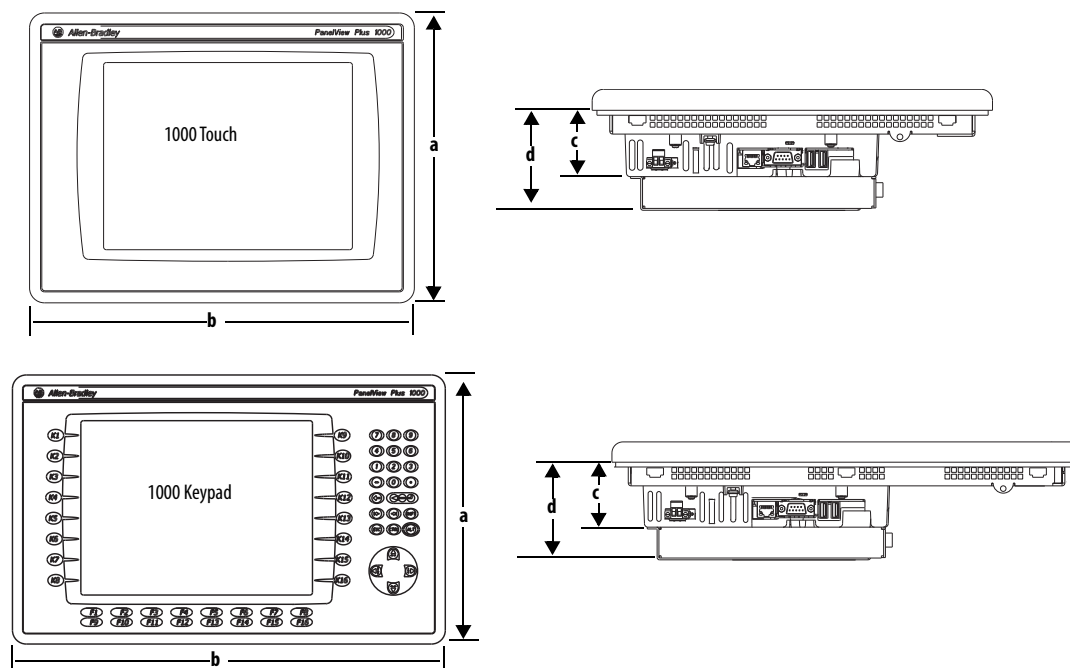


Table 5 - PanelView Plus 6 - 700...1500 Terminal Dimensions

Terminal	Input Type	Height (a) mm (in.)	Width (b) mm (in.)	Depth (c) Display to Logic Module mm (in.)	Depth (d) Display to Communication Module mm (in.)	Cutout Height mm (in.)	Cutout Width mm (in.)
700	Keypad or keypad/touch	193 (7.58)	290 (11.40)	55 (2.18)	83 (3.27)	167 (6.59)	264 (10.39)
	Touch	179 (7.04)	246 (9.68)			154 (6.08)	220 (8.67)
1000	Keypad or keypad/touch	248 (9.77)	399 (15.72)			224 (8.8)	375 (14.75)
	Touch	248 (9.77)	329 (12.97)			224 (8.8)	305 (12.00)
1250	Keypad or keypad/touch	282 (11.12)	416 (16.36)	74 (2.9)	101 (3.99)	257 (10.11)	390 (15.35)
	Touch	282 (11.12)	363 (14.30)			257 (10.11)	338 (13.29)
	Touch (high-bright display)	282 (11.12)	363 (14.30)			257 (10.11)	338 (13.29)
1500	Keypad or keypad/touch	330 (12.97)	469 (18.46)	65 (2.55)	93 (3.65)	305 (12.00)	419 (16.50)
	Touch	330 (12.97)	416 (16.37)			305 (12.00)	391 (15.40)