Technical Data

Original Instructions

PanelView Plus 7 Performance Terminals

Catalog Numbers 2711P-xxx22x9P, 2711P-xxx22x9P-B, 2711P-xxx22x9PK, 2711P-Txx22D9P-BSHK, 2711P-T12W22D9P-BMxxx

Topic	Page
Summary of Changes	2
Catalog Numbers	2
Environmental Specifications	3
Resistance to Chemicals	4
Certifications	4
Technical Specifications	5
PanelView Plus 7 Performance Terminals	5
PanelView Plus 7 Performance Stainless Steel Terminals	8
ArmorView Plus 7 Terminals	9
Accessories	13
HMI Software	15
Additional Resources	15



The PanelView™ Plus 7 Performance terminals are operator interface devices. They monitor and control devices that are attached to ControlLogix® and CompactLogix™ 5370 controllers on an EtherNet/IP™ network. Animated graphic and text displays provide operators a view into the operating state of a machine or process. Operators interact with the control system by using touch screen or keypad input.

The PanelView Plus 7 Performance terminals include these features and capabilities:

- FactoryTalk® View Machine Edition software provides a familiar environment for creating HMI applications
- Connection to ControlLogix or CompactLogix 5370 controllers
- Ethernet communication that can support Device Level Ring (DLR), linear, or star network topologies
- Conformal coating available for all DC power, touch-only terminals, and the 15-in. DC power, keypad and touch terminal
- Stainless steel, hygienic, brandless, DC-power, and conformal coating are available for the touch-only units in the 9-in. wide screen, 10-in., 12-in. wide screen, and 15-in. terminal sizes
- On-machine mounting available for the 12.1-in. wide screen, touch-only terminals

Summary of Changes

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

Topic	Page
Added 10-in. and 15-in. stainless steel catalog numbers and information	Throughout
Corrected the Corrosive Atmosphere rating information in the Environmental Specifications table	3
Updated the CE (LVD), KDD, and RoHS information in the Certifications table	4

Catalog Numbers

This publication is applicable to these currently available PanelView Plus 7 Performance terminals.

PanelView Plus 7 Performance	2711P-T7C22D9P, 2711P-B7C22D9P, 2711P-T9W22D9P, 2711P-T10C22D9P, 2711P-B10C22D9P, 2711P-T12W22D9P, 2711P-T15C22D9P, 2711P-B15C22D9P, 2711P-T19C22D9P
PanelView Plus 7 Performance Conformal Coated	2711P-T7C22D9PK, 2711P-T9W22D9PK, 2711P-T10C22D9PK, 2711P-T12W22D9PK, 2711P-T15C22D9PK, 2711P-T19C22D9PK, 2711P-B15C22D9PK
PanelView Plus 7 Performance Brandless	2711P-T7C22D9P-B, 2711P-B7C22D9P-B, 2711P-T9W22D9P-B, 2711P-T10C22D9P-B, 2711P-B10C22D9P-B, 2711P-T12W22D9P-B, 2711P-T15C22D9P-B, 2711P-B15C22D9P-B, 2711P-T19C22D9P-B
PanelView Plus 7 Performance Stainless Steel	2711P-T9W22D9P-BSHK, 2711P-T10C22D9P-BSHK, 2711P-T12W22D9P-BSHK, 2711P-T15C22D9P-BSHK
ArmorView Plus 7	2711P-T12W22D9P-BM001, 2711P-T12W22D9P-BM002, 2711P-T12W22D9P-BM003, 2711P-T12W22D9P-BM004, 2711P-T12W22D9P-BM005, 2711P-T12W22D9P-BM006, 2711P-T12W22D9P-BM007, 2711P-T12W22D9P-BM008, 2711P-T12W22D9P-BM009, 2711P-T12W22D9P-BM010, 2711P-T12W22D9P-BM011, 2711P-T12W22D9P-BM012, 2711P-T12W22D9P-BM013, 2711P-T12W22D9P-BM014, 2711P-T12W22D9P-BM015, 2711P-T12W22D9P-BM016

This publication is also applicable to these discontinued PanelView Plus 7 Performance terminals.

PanelView Plus 7 Performance	2711P-T7C22A9P, 2711P B7C22A9P, 2711P-T9W22A9P, 2711P-T10C22A9P, 2711P-B10C22A9P, 2711P-T12W22A9P, 2711P-T15C22A9P, 2711P-B15C22A9P, 2711P-T19C22A9P
PanelView Plus 7 Performance Brandless	2711P-T7C22A9P-B, 2711P-B7C22A9P-B, 2711P-T9W22A9P-B, 2711P-T10C22A9P-B, 2711P-B10C22A9P-B, 2711P-T12W22A9P-B, 2711P-T15C22A9P-B, 2711P-B15C22A9P-B, 2711P-T19C22A9P-B

PanelView Plus 7 Performance terminal catalog numbers ending in:

- 'K' are conformal coated for extended protection in harsh, corrosive environments
- '-B' exclude the Allen-Bradley brand marking. You can put your own brand labels on these terminals
- 'BSHK' are conformal coated, brandless, and feature a stainless-steel 316 bezel

Environmental Specifications

This table lists environmental specifications for the PanelView Plus 7 Performance and ArmorView™ Plus 7 terminals.

Environmental Specifications

Attribute	Value
Temperature, operating	6.5-in., 9-in., 10.4-in., 12.1-in., and 15-in. terminals 0…55 °C (32…131 °F) 19-in. terminals (Series A) 0…50 °C (32…122 °F) 19-in. terminals (Series B) 0…55 °C (32…131 °F) ArmorView Plus 7 terminals 0…50 °C (32…122 °F) ambient(1)
Temperature, nonoperating	-25…+70 °C (-13…+158 °F)(2)
Heat dissipation	Typical BTU measurements were taken at 25 °C (77 °F): 6.5-in. DC (touch, and touch with keypad), 51 BTU (typical) (Series B, 38 BTU) 6.5-in. AC (touch, and touch with keypad), 53 BTU (typical) 9-in. DC, 55 BTU (typical) Series A (Series B for stainless steel) 9-in. DC, 41 BTU (typical) Series B (Series C for stainless steel) 9-in. AC, 58 BTU (typical) 10.4-in. DC (touch, and touch with keypad) Series A, 51 BTU (typical) 10.4-in. DC (touch, and touch with keypad) Series B (Series C for stainless steel), 48 BTU (typical) 10.4-in. AC (touch, and touch with keypad), 56 BTU (typical) 12.1-in. DC Series A (Series B for stainless steel), 60 BTU (typical) 12.1-in. DC Series B (Series C for stainless steel), 49 BTU (typical) 12.1-in. AC, 67 BTU (typical) 15-in. DC (touch, and touch with keypad) Series A, 61 BTU (typical) 15-in. DC (touch, and touch with keypad) Series B (Series C for stainless steel), 71 BTU (typical) 15-in. AC (touch, and touch with keypad), 68 BTU (typical) 19-in. DC, 114 BTU (typical) (Series B, 92 BTU) 19-in. AC, 119 BTU (typical)
Altitude, operating	2000 m (6562 ft)(2)
Relative humidity	5…95% without condensation(2)
Vibration	6.5-in., 9-in., 10.4-in., 12.1-in. terminals, and 12.1-in. terminal in the ArmorView Plus 7 enclosure 0.012 pk-pk, 10…57 Hz 2 g peak at 57…500 Hz 15-in. and 19-in. terminals 0.006 pk-pk, 10…57 Hz 1 g peak at 57…640 Hz
Shock, operating	15 g at 11 ms(3)
Shock, nonoperating	30 g at 11 ms(3)
Enclosure ratings	NEMA and UL Type 12, 13, 4X, also rated IP66 as Classified by UL(4) (5)
Corrosive Atmosphere(6) ASTM B845-97 Method K Accelerated Test (20-Day Exposure)	Severity Level G3(7)(8) per ANSI/ISA 71.04-2013, Airborne Contaminants—Gases Severity Level CX(7) per IEC 60721-3-3:2019, Chemically Active Substances

(1) The optional I/O plate (included in the VESA Mounting Kit—2711P-RVESA01) is rated to 0…45 °C (32…113 °F).
(2) These values are the same for the ArmorView Plus 7 terminals.
(3) These values are the same for the ArmorView Plus 7 terminals when the VESA mount is used. When the arm mount coupling is used, the values are 5 g at 11 ms.
(4) The ArmorView Plus 7 terminals enclosure ratings are 12, 13, 4, or 4X (see the ArmorView Plus 7 Installation Instructions, publication 2711P-IN013 for more detail) and IP66 as classified by UL.
(5) The PanelView Plus 7 Performance Stainless Steel Series B and Series C terminals are also rated IP69 as Classified by UL and tested for IP69K according to ISO 20653.
(6) Only applicable to terminals that have a 'K' or "BSHK" in the catalog number.
(7) Port plugs/covers must remain installed in unused ports at all times during storage and operation for the product to maintain its corrosive atmosphere rating.
(8) Up to 86.4 g/(m^2·yr), mass loss of copper due to corrosion.

Resistance to Chemicals

The outer surfaces of the terminal including the bezel, touch screen overlay, and panel gasket seal are tested for chemical resistance. Some of the chemicals can cause discoloration, but they do not interfere with the operation of the terminal.

For more information on the chemical resistance of the product, go to https://rockwellautomation.custhelp.com and search the Knowledgebase using the keywords, 'Chemical Resistance PanelView Plus'.

IMPORTANT Do not operate the terminal in direct sunlight. Direct exposure to ultraviolet light can discolor the touch screen.

Certifications

This table lists certifications for the PanelView Plus 7 Performance terminals.

Certification[1]	Value
CE (EMC)	European Union 2014/35/EU EMC Directive, compliant with: EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers
CE (LVD)[2]	European Union 2014/30/EU Low Voltage Directive, compliant with: EN 61010-2-201; Safety Requirements for Control Equipment
c-UL-us	Both ArmorView Plus 7 (E113724) and PanelView Plus 7 Performance (UL Category Control Number E10314) terminals hold the following certifications: • c-UL-us Listed Industrial Control Equipment for US and Canada per standards UL 61010-1, UL 61010-2-201, CSA-C22.2 No. 61010-1, and CSA-C22.2 No. 61010-2-201. • Enclosure type ratings per UL50 and CSA C22.2 No. 94.2. • Enclosure ingress protection that is classified by UL per IEC 60529. In addition, PanelView Plus 7 Performance (E10314) terminals hold the following certifications: • cULus Listed Industrial Control Equipment for use in Hazardous Locations per standards ANSI/ISA 12.12.01 and CSA C22.2 No. 213 rated: – Class I, Div 2, Groups A, B, C, D – Class II, Div 2, Groups F and G – Class III, Div 1 and 2
EtherNet/IP	ODVA conformance that is tested to EtherNet/IP specifications
KCC	Certificate of compliance R-R-RAA-2711P-12BM for ArmorView Plus 7 MSIP-REM-RAA-2711P-X22XP for PanelView Plus 7 Performance
NSF	Stainless Steel Series B and C Terminals only, compliant with: • NSF/ANSI/3-A 14159-1; Hygiene Requirements for the Design of Meat and Poultry Processing Equipment • NSF/ANSI 169; Special Purpose Food Equipment and Devices
RCM	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions
RoHS	China RoHS, Türkiye RoHS, KSA RoHS, UAE RoHS, European RoHS 2011/65/EU (incorporating 2015/863)
UKCA	BS EN 61010-2-201; Safety Requirements for Control Equipment BS EN 61131-2; Programmable Controllers
Morocco	NM EN 61010-2-201; Safety Requirements for Control Equipment NM EN 61131-2; Programmable Controllers

(1) When marked. See the Product Certification link at rok.auto/certification for Declarations of Conformity, Certificates, and other certification details.
(2) This EU directive does not apply to PanelView products with a voltage rating under 50 Vac or 75 Vdc.

Technical Specifications - PanelView Plus 7 Performance 10-in and 12-in Terminals

Attribute	10.4-in. Touch		10.4-in. Touch with Keypad		12.1-in. Touch	
	2711P-T10C22D9P, 2711P-T10C22D9P-B, 2711P-T10C22D9PK	2711P-T10C22A9P, 2711P-T10C22A9P-B	2711P-B10C22D9P, 2711P-B10C22D9P-B	2711P-B10C22A9P, 2711P-B10C22A9P-B	2711P-T12W22D9P, 2711P-T12W22D9P-B, 2711P-T12W22D9PK	2711P-T12W22A9P, 2711P-T12W22A9P-B
Operator input	Touch		Touch with keypad		Touch	
Display type	TFT Color					
Display size, diagonal	10.4-in.				12.1-in. wide screen	
Viewing area (W x H)	211 x 158 mm (8.3 x 6.2 in.)				261 x 163 mm (10.3 x 6.4 in.)	
Display resolution	**(Series A)** 800 x 600 VGA, 18-bit color graphics **(Series B)** 800 x 600 VGA, 24-bit color graphics				**(Series A)** 1280 x 800 WXGA, 18-bit color graphics **(Series B)** 1280 x 800 WXGA, 24-bit color graphics	
Aspect ratio	4:3				16:10	
Brightness, typical	300 cd/m2 (Nits) or more					
Backlight life	White light-emitting diode, solid-state Life: 50,000 h min at 40 °C (104 °F) to half-brightness, backlight is not replaceable					
Touch screen	Analog resistive Actuation rating: 1 million presses Operating force: 100 grams					
Battery (real-time clock backup)	Accuracy: ±2 minutes per month. Battery life: 4 years min at 25 °C (77 °F) Replacement: CR2032 lithium coin cell					
Memory: • System • User	**(Series A)** 512 MB RAM and 512 MB storage 80 MB, approx, nonvolatile storage for applications **(Series B)** 4 GB RAM and 19.87 GB storage 2 GB, approx, nonvolatile storage for applications					
Secure Digital (SD) card slot	One SD card slot for external storage; supports cat. no. 1784-SD*x* and 1784-SDHC*x* cards					
USB ports: • Host • Device	**(Series A)** Two USB high-speed 2.0 host ports (type A) support removable flash drives for external storage One high-speed 2.0 device port (type B) that will be functional in a future release **(Series B)** One USB high-speed 3.0 host port and one USB 2.0 host port (Type A) supports removable flash drives for external storage One high-speed 2.0 device port (type B) that will be functional in a future release					
Operating system	**(Series A)** Windows CE 6.0 with Extended Features and Microsoft Office Viewers (includes FTP, VNC client server, ActiveX controls, PDF reader, third-party device support) **(Series B)** Windows 10 IoT Core					
Ethernet ports	Two 10/100Base-T, Auto MDI/MDIX Ethernet ports that support Device Level Ring (DLR), linear, or star network topologies					
Software	FactoryTalk View Studio for Machine Edition, FactoryTalk ViewPoint, version 2.6 or later					
Input voltage	24V DC nom (18...30V DC)	100...240V AC	24V DC nom (18...30V DC)	100...240V AC	24V DC nom (18...30V DC)	100...240V AC
Power consumption	**(Series A)** 50 W max (2.1 A at 24V DC) **(Series B)** 32 W max	105VA	**(Series A)** 50 W max (2.1 A at 24V DC) **(Series B)** 32 W max	105VA	**(Series A)** 50 W max (2.1 A at 24V DC) **(Series B)** 33 W max	105VA
Power supply	Supports (SELV) and (PELV) 24V DC supplies[1]	–	Supports (SELV) and (PELV) 24V DC supplies[1]	–	Supports (SELV) and (PELV) 24V DC supplies[1]	–
Weight, approx	2.28 kg (5.03 lb)		2.58 kg (5.69 lb)		2.54 kg (5.60 lb)	
Dimensions, approx (H x W x D)	252 x 297 x 69.6 mm (9.92 x 11.69 x 2.74 in.)		252 x 385 x 69.6 mm (9.92 x 15.16 x 2.74 in.)		240 x 340 x 69.6 mm (9.69 x 13.39 x 2.74 in.)	
Cutout dimensions, approx (H x W)	224 x 269 mm (8.82 x 10.59 in.)		224 x 335 mm (8.82 x 13.19 in.)		218 x 312 mm (8.58 x 12.28 in.)	

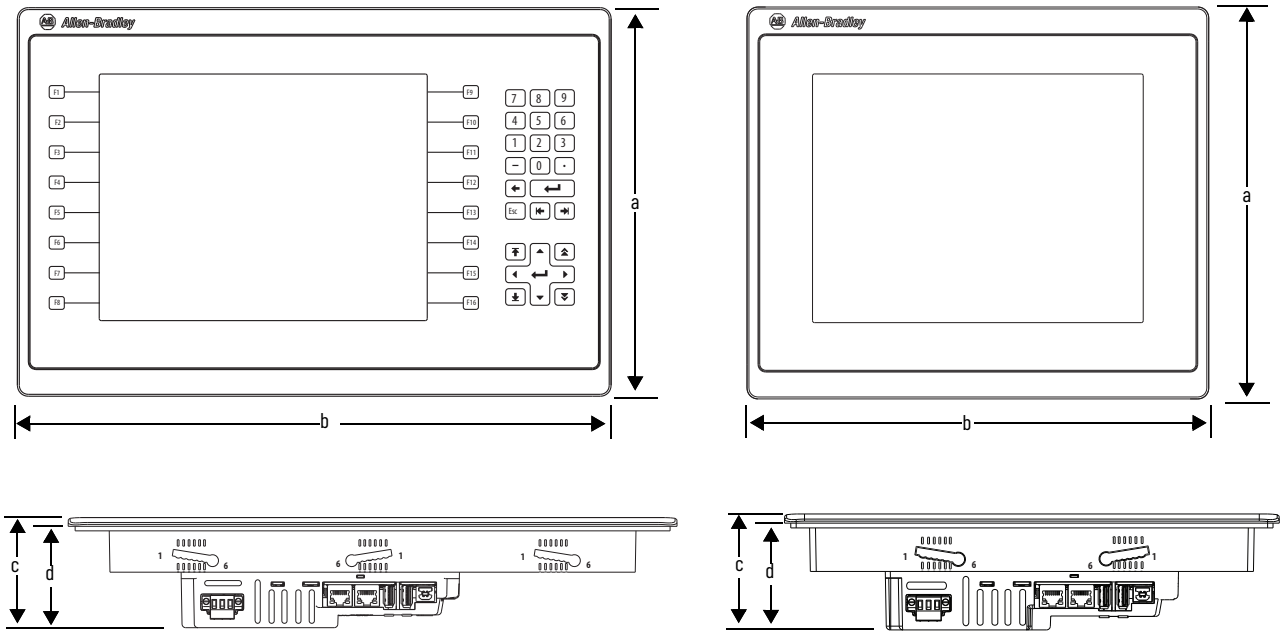
(1) DC-powered terminals support safety extra low voltage (SELV) and protective extra low voltage (PELV) 24V DC power supplies such as cat. nos. 1606-XLP95E, 1606-XLP100E, 2711P-RSACDIN.

Product Dimensions

PanelView Plus 7 Performance Terminals

This section provides product dimensions for the PanelView Plus 7 Performance terminals. The PanelView Plus 7 Performance 10.4-inch touch and combination keypad with touch devices are shown for illustrative purposes. Stainless steel terminals use different mounting clips, but the dimensions are the same. Dimensions for the 12.1-in. ArmorView Plus 7 terminals can be found on page 11.

PanelView Plus 7 Performance Terminal Dimensions - 10.4-in. Model



PanelView Plus 7 Performance Terminal Dimensions

Terminal Size	Input Type	Height (a) mm (in.)	Width (b) mm (in.)	Overall Depth (c) mm (in.)	Mounted Depth (d) mm (in.)
6.5-in.	Key/touch	179 (7.05)	285 (11.22)	69.6 (2.74)	63.6 (2.50)
	Touch	170 (6.69)	212 (8.35)		
9-in.	Touch	190 (7.48)	280 (11.02)		
10.4-in.	Key/touch	252 (9.92)	385 (15.16)		
	Touch	252 (9.92)	297 (11.69)		
12.1-in.	Touch	246 (9.69)	340 (13.39)		
15-in.	Key/touch	322 (12.68)	484 (19.06)		
	Touch	318 (12.52)	381 (15.00)		
19-in.	Touch	411 (16.18)	485 (19.09)		

When mounted in a panel, the front of the bezel extends less than 6.36 mm (0.25 in.) from the front of the panel.

Accessories

This section describes accessories for the PanelView Plus 7 Performance and ArmorView Plus 7 terminals.

Protective Overlays

Cat. No. [1]	Display Size	Operator Input		Quantity
		Touch	Key and Touch	
2711P-RGT7SP	6.5-in.	•		3
2711P-RGB7P			•	
2711P-RGT9SP	9-in. (wide)	•		
2711P-RGT10SP	10.4-in.	•		
2711P-RGB10P			•	
2711P-RGT12SP[2]	12.1-in. (wide)	•		
2711P-RGT15SP	15-in.	•		
2711P-RGB15P			•	
2711P-RGT19P	19-in.	•		

(1) The use of protective overlays may not be compatible in all hygienic applications. Consult the standards and protocols for your hygienic applications before you use a protective overlay on a stainless-steel terminal.
(2) On ArmorView Plus 7 terminals, the protective overlay covers only the touch screen portion of the product.

Power Supplies and Power Terminal Blocks

Cat. No.	Description	Quantity
1606-XLP95E	DIN rail power supply, 24…28V DC output voltage, 95 W	1
1606-XLP100E	DIN rail power supply, 24…28V DC output voltage, 100 W	1
2711P-RSACDIN	DIN rail power supply, AC-to-DC, 85…265V AC, 47…63 Hz	1
2711P-RTBAP	3-pin AC power terminal block	10
2711P-RTBDSP	3-pin DC power terminal block	10

Mounting Hardware

Cat. No.	Description	Quantity
2711P-RMCP[1]	Replacement mounting levers (black)	16
2711P-RTMC[2]	Replacement mounting clips (only for stainless-steel terminals)	8

(1) Catalog number 2711P-RMCP mounting levers are used with PanelView Plus 7 Performance terminals. Do not use gray mounting levers; they are not compatible with PanelView Plus 7 Performance terminals.
(2) Catalog number 2711P-RTMC mounting clips are used for stainless-steel terminals, catalog numbers 2711P-T9W22D9P-BSHK 2711P-T10C22D9P-BSHK, 2711P-T12W22D9P-BSHK, or 2711P-T15C22D9P-BSHK. **NOTE:** 2711P-T12W22D9P-BSHK requires 10 mounting clips and 2711P-T15C22D9P-BSHK requires 12 mounting clips. If you need more than eight clips, order two 2711P-RTMC mounting clip kits.

Secure Digital (SD) Cards[1]

Cat. No.	Description	Quantity
1784-SD1	1 GB SD card	1
1784-SD2	2 GB SD card	1
1784-SDHC8	8 GB High Capacity SD card	1
1784-SDHC32	32 GB High Capacity SD card	1
2711C-RCSD	USB to SD adapter for SD card	1

(1) To help reduce the chance of corruption when you use SD Cards or USB drives with the terminal, Rockwell Automation recommends that you use only the above SD card catalog numbers.

Battery Replacement

Cat. No.	Description	Quantity
2711P-RY2032	Lithium coin cell battery, CR2032 equivalent	1