

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-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/(m²-yr), mass loss of copper due to corrosion.

Technical Specifications - PanelView Plus 7 Performance 15-in and 19-in Terminals

Attribute	15-in. Touch		15-in. Touch with Keypad		19-in. Touch	
	2711P-T15C22D9P, 2711P-T15C22D9P-B, 2711P-T15C22D9PK	2711P-T15C22A9P, 2711P-T15C22A9P-B	2711P-B15C22D9P, 2711P-B15C22D9P-B, 2711P-B15C22D9PK	2711P-B15C22A9P, 2711P-B15C22A9P-B	2711P-T19C22D9P, 2711P-T19C22D9P-B, 2711P-T19C22D9PK	2711P-T19C22A9P, 2711P-T19C22A9P-B
Operator input	Touch		Touch with keypad		Touch	
Display type	TFT Color					
Display size, diagonal	15-in.				19-in.	
Viewing area (W x H)	304 x 228 mm (12.0 x 9.0 in.)				376 x 301 mm (14.8 x 11.9 in.)	
Display resolution	(Series A) 1024 x 768 XGA, 18-bit color graphics				(Series A) 1280 x 1024 SXGA, 18-bit color graphics	
	(Series B) 1024 x 768 XGA, 24-bit color graphics				(Series B) 1280 x 1024 SXGA, 24-bit color graphics	
Aspect ratio	4:3				5:4	
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-SDx and 1784-SDHCx 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)	105VA	(Series A) 50 W max (2.1 A at 24V DC)	105VA	(Series A) 50 W max (2.1 A at 24V DC)	105VA
	(Series B) 39 W max		(Series B) 39 W max		(Series B) 45 W max	
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	3.69 kg (8.14 lb)		4.14 kg (9.13 lb)		5.62 kg (12.40 lb)	
Dimensions, approx (H x W x D)	318 x 381 x 69.6 mm (12.52 x 15.00 x 2.74 in)		322 x 484 x 69.6 mm (12.68 x 19.06 x 2.74 in)		411 x 485 x 69.6 mm (16.18 x 19.09 x 2.74 in)	
Cutout dimensions, approx (H x W)	290 x 353 mm (11.42 x 13.90 in)		290 x 418 mm (11.42 x 16.46 in)		383 x 457 mm (15.08 x 17.99 in)	

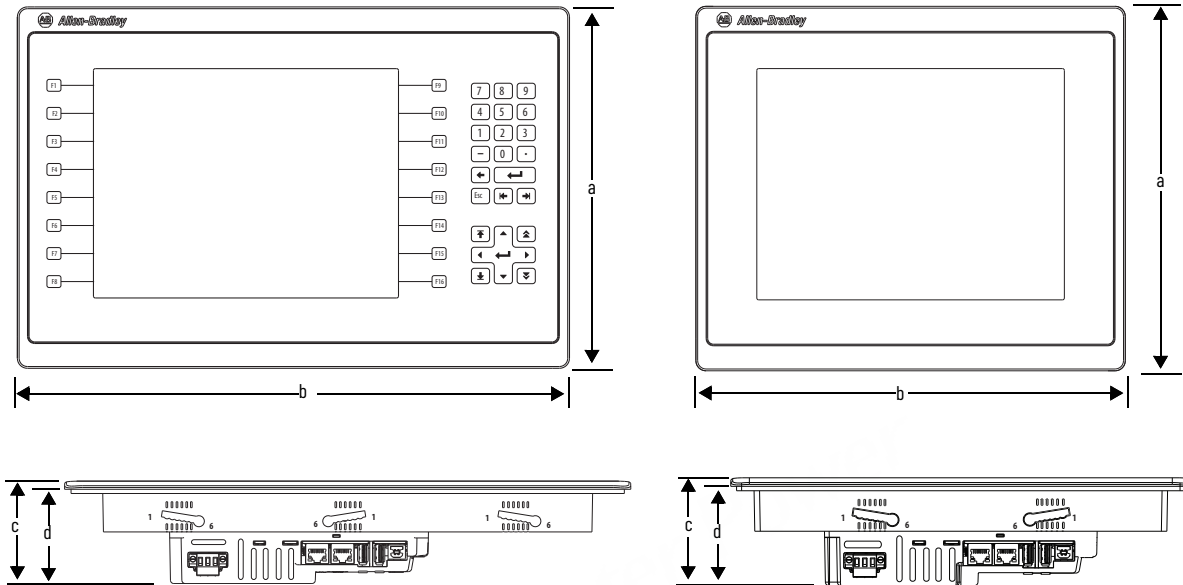
(1) DC-powered terminals support safety extra low voltage (SELV) and protective extra low voltage (PELV) 24V DC power supplies such as cat. nos. 1606-XLP95E, 1606-XLP100E, 2711P-RSACDIN.

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)		



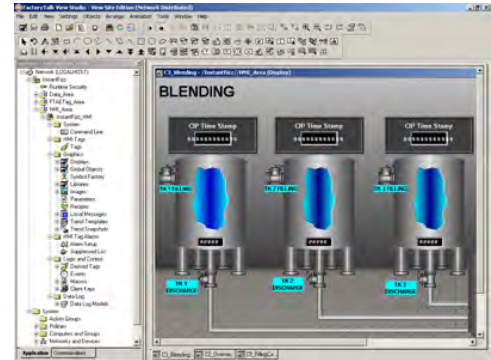
When mounted in a panel, the front of the bezel extends less than 6.36 mm (0.25 in.) from the front of the panel.

HMI Software

All PanelView Plus 7 terminals are configured with FactoryTalk View Studio software and have an integrated runtime system called FactoryTalk View Machine Edition Station.

Machine Edition Station runs projects that are developed with FactoryTalk View Studio software and is included on all PanelView Plus 7 terminals.

Two versions of FactoryTalk View Studio software support application development for PanelView Plus 7 terminals.



Cat. No. ⁽¹⁾	Description
9701-VWSTMENE	FactoryTalk View Studio for Machine Edition software - Configuration software for developing and testing machine-level human machine interface (HMI) applications. Includes FactoryTalk Linx and KEXServer Enterprise software.
9701-VWSTENE	FactoryTalk View Studio software - Configuration software for developing and testing machine-level and supervisory-level human machine interface (HMI) applications.

(1) To order localized versions of the software, replace EN in the catalog number with DE for German, FR for French, JP for Japanese, or ZH for Chinese.

You can import PanelView Standard/PanelBuilder® 32 and PanelView applications into FactoryTalk View Studio software as Machine Edition applications by using the Machine Edition Import Wizard. The Import Wizard steps you through a few options such as scaling to a new screen resolution size, and then converts objects, text, tags, and communication configurations to ones that are available in Machine Edition.



FactoryTalk ViewPoint software, an Add-On to FactoryTalk View Studio software, allows plant managers, production supervisors, system integrators, and other key personnel to view and control real-time plant floor operations remotely from a web browser. FactoryTalk ViewPoint enabled displays are fully scalable and animated in the browser. You can also view displays that are not the active display of the terminal from a remote location.

Each PanelView Plus 7 terminal contains one license that supports one client connection to the terminal. No additional software is required.

For a complete list of available HMI software, visit <https://www.rockwellautomation.com/en-us/products/software.html#hmi>.

Additional Resources

These documents contain more information about related products from Rockwell Automation.

Resource	Description
PanelView Plus 7 Performance Terminals User Manual, publication 271P-UM008	Provides instructions on how to install, configure, and operate the PanelView Plus 7 Performance terminals.
ArmorView Plus 7 Installation Instructions, publication 271P-IN013	Provides instructions on how to install the ArmorView Plus 7 components.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines on how to install a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications .	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at rok.auto/literature.