Allen-Bradley
by ROCKWELL AUTOMATION

PanelView Plus 7 Performance Terminals

Catalog Numbers 2711P-T7C22D9P, 2711P-T7C22D9P-B, 2711P-T7C22A9P, 2711P-T7C22A9P-B, 2711P-B7C22D9P, 2711P-B7C22D9P-B, 2711P-B7C22A9P, 2711P-B7C22A9P-B, 2711P-T9W22D9P, 2711P-T9W22D9P-B, 2711P-T9W22A9P, 2711P-T9W22A9P-B, 2711P-T10C22D9P, 2711P-T10C22D9P-B, 2711P-T10C22A9P, 2711P-T10C22A9P-B, 2711P-B10C22D9P, 2711P-B10C22D9P-B, 2711P-B10C22A9P, 2711P-B10C22A9P-B, 2711P-T12W22D9P, 2711P-T12W22D9P-B, 2711P-T12W22A9P, 2711P-T12W22A9P-B, 2711P-T15C22D9P, 2711P-T15C22D9P-B, 2711P-T15C22A9P, 2711P-T15C22A9P-B, 2711P-B15C22D9P, 2711P-B15C22D9P-B, 2711P-B15C22A9P, 2711P-B15C22A9P-B, 2711P-T19C22D9P, 2711P-T19C22D9P-B, 2711P-T19C22A9P, 2711P-T19C22A9P-B, 2711P-T9W22D9P-BSHK, 2711P-T12W22D9P-BSHK, 2711P-T7C22D9PK, 2711P-T9W22D9PK, 2711P-T10C22D9PK, 2711P-T12W22D9PK, 2711P-T15C22D9PK, 2711P-T19C22D9PK, 2711P-B15C22D9PK, 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

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
- Web browser, Microsoft® file viewers, text editor, PDF viewer, remote desktop connection, and media player on the terminal desktop
- 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 9-in. wide-screen, touch-only units and the 12-in. wide-screen, touch-only units
- On-machine mounting available for the 12.1-in. wide-screen, touch-only terminal

Rockwell Automation

Summary of Changes

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

Topic	Page
Added information about the PanelView Plus 7 Performance Series B terminals.	Throughout

Environmental Specifications

This table lists environmental specifications for the PanelView Plus 7 Performance terminals and the ArmorView™ Plus 7 terminal (which includes a 12.1-in PanelView Plus 7 Performance terminal).

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
	   0…50 °C (32…122 °F)[1]
	ArmorView Plus 7 terminal
	   0…50 °C (32…122 °F) ambient[2]

Temperature, nonoperating	-25…+70 °C (-13…+158 °F)[3]
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 B, 41 BTU) • 9-in. AC, 58 BTU (typical) • 10.4-in. DC (touch, and touch with keypad), 51 BTU (typical) (Series B, 48 BTU) • 10.4-in. AC (touch, and touch with keypad), 56 BTU (typical) • 12.1-in. DC, 60 BTU (typical) (Series B, 49 BTU) • 12.1-in. AC, 67 BTU (typical) • 15-in. DC (touch, and touch with keypad), 61 BTU (typical) (Series B, 71 BTU) • 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)[3]
Relative humidity	5…95% without condensation[3]

Vibration	6.5-in., 9-in., 10.4-in., 12.1-in. terminals, and 12.1-in. terminals 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[4]
Shock, nonoperating	30 g at 11 ms[4]
Enclosure ratings	NEMA and UL Type 12, 13, 4X, also rated IP66 as Classified by UL[5][6]
Corrosive Atmosphere ASTM B845-97 Method K Accelerated Test (30 Day Exposure)	Severity Level GX*,** per ANSI/ISA 71.04-2013, Airborne Contaminants - Gases **up to 2100 angstroms of film growth per 30 days of copper and silver reactivity Severity Level CX* per IEC 60721-3-3-2019, Chemically Active Substances *Port plugs need to remain installed in unused ports at all times during storage and operation, for the product to meet its corrosive atmosphere rating.

(1) For Series B terminals, all terminal sizes, including the 19-in. terminal, having a temperature rating of 0…55 °C (32…131 °F).
(2) The optional I/O plate (included in the VESA Mounting Kit—2711P-RVESA01) is rated to 0…45 °C (32…113 °F).
(3) These values are the same for the ArmorView Plus 7 terminal.
(4) These values are the same for the ArmorView Plus 7 terminal when the VESA mount is used. When the arm mount coupling is used, the values are 5 g at 11 ms.
(5) For the ArmorView Plus 7 terminal, the 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.
(6) 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.

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 chemical resistance of the product, go to https://rockwellautomation.custhelp.com and search the Knowledgebase for 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 61131-2; Programmable Controllers • EN 61010-2-201; Safety Requirements for Control Equipment
c-UL-us	Both ArmorView Plus 7 (E113724) and PanelView Plus 7 Performance (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-BM12 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, Turkey RoHS, UAE RoHS, European RoHS 2011/65/EU
EAC	Certificate of compliance
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 certification is not available for the ArmorView Plus 7 terminal.

Technical Specifications

The tables in this section provide technical specifications for the PanelView Plus 7 Performance terminals.

PanelView Plus 7 Performance 7-in and 9-in Terminals

Attribute	6.5-in. Touch 2711P--T7C22D9P, 2711P--T7C22D9P-B [1] 2711P-T7C22A9P[2], 2711P-T7C22A9P-B[2] 2711P-T7C22D9PK[3]		6.5-in. Touch with Keypad 2711P-B7C22D9P, 2711P-B7C22D9P-B [1] 2711P-B7C22A9P[2], 2711P-B7C22A9P-B[2]		9-in. Touch 2711P-T9W22D9P, 2711P-T9W22D9P-B [1] 2711P-T9W22A9P[2], 2711P-T9W22A9P-B[2] 2711P-T9W22D9PK[3]	
Operator input	Touch		Touch with keypad		Touch	
Conformal-coated	Yes		—		Yes	
Display type	TFT Color					
Display size, diagonal	6.5-in.				9-in. widescreen	
Viewing area (W x H)	132 x 99 mm (5.2 x 3.9 in.)				196 x 118 mm (7.7 x 4.6 in.)	
Display resolution	640 x 480 VGA, 18-bit color graphics[4]				800 x 480 WVGA, 18-bit color graphics[4]	
Aspect ratio	4:3				5:3	
Brightness, typical	737 cd/m^2 (Nits)				358 cd/m^2 (Nits)	
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 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*Series C for Stainless Steel Terminals					
Secure Digital (SD) card slots	One SD card slot for external storage; supports cat. no. 1784-SD*x* and 1784-SDHC*x* cards					
USB ports: • Host • Device • 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[5] 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 *Series C for Stainless Steel Terminals					
Operating system	**(Series A)** Windows CE 6.0 with Extended Features and MS Office Viewers (includes FTP, VNC client server, ActiveX controls, PDF reader, third-party device support) **(Series B*)** Windows 10 IoT Core *Series C for Stainless Steel Terminals					
Ethernet ports	Two 10/100Base-T, Auto MDI/MDI-X 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					
Electrical						
Input voltage	24V DC nom (18…30V DC)	100…240V AC[2]	24V DC nom (18…30V DC)	100…240V AC[2]	24V DC nom (18…30V DC)	100…240V AC[2]
Power consumption	50 W max (2.1 A at 24V DC) 29 W for Series B T7 terminal	105VA	50 W max (2.1 A at 24V DC) 29 W for Series B B7 terminal	105VA	50 W max (2.1 A at 24V DC) 30 W for Series B T9W terminal	105VA
Power supply	Supports (SELV) and (PELV) 24V DC supplies[6]	—	Supports (SELV) and (PELV) 24V DC supplies[6]	—	Supports (SELV) and (PELV) 24V DC supplies[6]	—

PanelView Plus 7 Performance 7-in and 9-in Terminals (Continued)

Attribute	6.5-in. Touch 2711P--T7C22D9P, 2711P--T7C22D9P-B [1] 2711P-T7C22A9P[2], 2711P-T7C22A9P-B[2] 2711P-T7C22D9PK[3]	6.5-in. Touch with Keypad 2711P-B7C22D9P, 2711P-B7C22D9P-B [1] 2711P-B7C22A9P[2], 2711P-B7C22A9P-B[2]	9-in. Touch 2711P-T9W22D9P, 2711P-T9W22D9P-B [1] 2711P-T9W22A9P[2], 2711P-T9W22A9P-B[2] 2711P-T9W22D9PK[3]
Mechanical			
Weight, approx	1.2 kg (2.65 lb)	1.47 kg (3.25 lb)	1.58 kg (3.48 lb)
Dimensions, approx (H x W x D)	170 x 212 x 69.6 mm 6.69 x 8.35 x 2.74 in.	179 x 285 x 69.6 mm 7.05 x 11.22 x 2.74 in.	190 x 280 x 69.6 mm 7.48 x 11.02 x 2.74 in.
Cutout dimensions, approx (H x W)	142 x 184 mm 5.59 x 7.24 in.	142 x 237 mm 5.59 x 9.33 in.	162 x 252 mm 6.38 x 9.92 in.

(1) Catalog numbers with a -B extension denote terminals that exclude the Allen-Bradley brand marking. Customers can put their own brand labels on these terminals.
(2) Series A only.
(3) Catalog numbers that end with a K denote terminals that are conformal coated.
(4) Series B terminals have 24-bit color graphics.
(5) The USB 3.0 host port only supports up to 500mA current output.
(6) 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.

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

Attribute	10.4-in. Touch 2711P-T10C22D9P, 2711P-T10C22D9P-B [1] 2711P-T10C22A9P [2], 2711P-T10C22A9P-B [2] 2711P-T10C22D9PK [3]		10.4-in. Touch with Keypad 2711P-B10C22D9P, 2711P-B10C22D9P-B [1] 2711P-B10C22A9P [2], 2711P-B10C22A9P-B [2]		12.1-in. Touch 2711P-T12W22D9P, 2711P-T12W22D9P-B [1] 2711P-T12W22A9P [2], 2711P-T12W22A9P-B [2] 2711P-T12W22D9PK [3]	
Operator input	Touch		Touch with keypad		Touch	
Conformal-coated	Yes		—		Yes	
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	800 x 600 SVGA, 18-bit color graphics [4]				1280 x 800 WXGA, 18-bit color graphics [4]	
Aspect ratio	4:3				16:10	
Brightness, typical	346 cd/m^2 (Nits)				417 cd/m^2 (Nits)	
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					
Memory: • System • User	**(Series B*)** • 4 GB RAM and 19.87 GB storage • 2 GB, approx, nonvolatile storage for applications *Series C for Stainless Steel Terminals					
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					
• USB ports: • Host • Device	**(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 *Series C for Stainless Steel Terminals					
Operating system	**(Series A)** Windows CE 6.0 with Extended Features and MS Office Viewers (includes FTP, VNC client server, ActiveX controls, PDF reader, third-party device support) **(Series B*)** Windows 10 IoT Core *Series C for Stainless Steel Terminals					
Ethernet ports	Two 10/100Base-T, Auto MDI/MDI-X 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					
Electrical						
Input voltage	24V DC nom (18…30V DC)	100…240V AC [2]	24V DC nom (18…30V DC)	100…240V AC [2]	24V DC nom (18…30V DC)	100…240V AC [2]
Power consumption	50 W max (2.1 A at 24V DC) 32 W for Series B T10 termnal	105VA	50 W max (2.1 A at 24V DC) 32 W for Series B B10 terminal	105VA	50 W max (2.1 A at 24V DC) 33 W for Series B T12W terminal	105VA
Power supply	Supports (SELV) and (PELV) 24V DC supplies [5]	—	Supports (SELV) and (PELV) 24V DC supplies [6]	—	Supports (SELV) and (PELV) 24V DC supplies [5]	—
Mechanical						
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) Catalog numbers with a -B extension denote terminals that exclude the Allen-Bradley brand marking. Customers can put their own brand labels on these terminals.
(2) Series A only.
(3) Catalog numbers that end with a K denote terminals that are conformal coated.
(4) Series B terminals have 24-bit color graphics.
(5) 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.