Allen-Bradley

PanelView 5500 Specifications

Catalog Numbers 2715-T7CD, 2715-T7CA, 2715-B7CD, 2715-B7CA, 2715-T9WD, 2715-T9WA, 2715-T10CD, 2715-T10CA, 2715-B10CD, 2715-B10CA, 2715-T12WD, 2715-T12WA, 2715-T15CD, 2715-T15CA, 2715-B15CD, 2715-B15CA, 2715-T19CD, 2715-T19CA

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The PanelView™ 5500 terminals are operator interface devices for monitoring and controlling devices that are attached to ControlLogix® L7 and CompactLogix™ L1, L2, and L3 controllers over 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 the touch screen or keypad of the terminal.



The PanelView 5500 terminals include these features and capabilities:

- Tightly integrated control and design environment allows information to be shared between the PanelView 5500 terminal and the Logix platforms.
- The Studio 5000® environment provides one point of access for both Studio 5000 View Designer™ and Studio 5000 Logix Designer™ applications
- Connection to one ControlLogix L7 or CompactLogix L1, L2, or L3 controller with revision 27 firmware or later.
- Supports a maximum of 50 user-defined screens (this will increase in future firmware).
- Supports a maximum of 500 Logix-based alarms (this will increase in future firmware).
- Ethernet communication supporting Device Level Ring (DLR), linear, or star network topologies.
- High-speed human machine interface (HMI) button control and easily configured navigation menu.

Environmental Specifications

Table 1 - Environmental Specifications - 2715-T7CD, 2715-T7CA, 2715-B7CD, 2715-B7CA, 2715-T9WD, 2715-T9WA, 2715-T10CD, 2715-T10CA, 2715-B10CD, 2715-B10CA, 2715-T12WD, 2715-T12WA, 2715-T15CD, 2715-T15CA, 2715-B15CD, 2715-B15CA, 2715-T19CD, 2715-T19CA

Attribute	Value
Temperature, operating	0…55 °C (32…131 °F)(1)
Temperature, nonoperating	-25…70 °C (-13…158 °F)
Relative humidity	5…95% without condensation
Vibration	0.012 pk-pk, 10…57 Hz 2g peak at 57…500 Hz(2)
Shock, operating	15 g at 11 ms
Shock, nonoperating	30 g at 11 ms
Enclosure ratings	NEMA and UL Type 12, 13, 4X, also rated IP66 as Classified by UL

(1) The operating temperature for 19-inch terminals (2715-T19CD and 2715-T19CA) is 0…50 °C (32…122 °F).

(2) The 15-inch and 19-inch terminals (2715-T15CD, 2715-T15CA, 2715-B15CD, 2715-B15CA, 2715-T19CD, 2715-T19CA) are rated to: 0.006 pk-pk, 10...57 Hz, 1g peak at 57...640 Hz.

Certifications

Table 2 Certifications - 2715-T7CD, 2715-T7CA, 2715-B7CD, 2715-B7CA, 2715-T9WD, 2715-T9WA, 2715-T10CD, 2715-T10CA, 2715-B10CD, 2715-B10CA, 2715-T12WD, 2715-T12WA, 2715-T15CD, 2715-T15CA, 2715-B15CD, 2715-B15CA, 2715-T19CD, 2715-T19CA

Certification(1)	Value
cULus	cULus Listed Industrial Control Equipment for use in Hazardous Locations (E10314) per standards ANSI / ISA 12.12.01 and CSA C22.2 No. 213. rated: • Class I, Div 2, Groups A, B, C, D Enclosure type ratings per UL50 and CSA C22.2 No. 94.2-07. Enclosure ingress protection classified by UL per IEC 60529
CE (EMC)	European Union 2004/108/EC EMC Directive, compliance with: • EN 61000-6-2; Industrial Immunity • EN 61000-6-4; Industrial Emissions • EN 61131-2; Programmable Controllers
CE (LVD)	European Union 2006/95/EC Low Voltage Directive, Compliance with: • EN 61131-2; Programmable Controllers
RCM	Australian Radio communications Act, compliance with: AS/NZS CISPR 11; Industrial Emissions
RoHS	China RoHS, Turkey RoHS, European RoHS
KCC	Certificate of compliance
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications

(1) When marked. See the Product Certification link on http://www.ab.com for declarations of conformity, certificates, and other certification details.

Technical Specifications

Table 3 - Technical Specifications - PanelView 5500 Terminals - 7-inch and 9-inch

Attribute	7-in. Touch		7-in. Touch with Keypad		9-in. Touch	
	2715-T7CD	2715-T7CA	2715-B7CD	2715-B7CA	2715-T9WD	2715-T9WA
Operator Input	Touch plus menu navigation button		Touch with keypad plus menu navigation button		Touch plus menu navigation button	
Display type	Color TFT LCD		Color TFT LCD		Color TFT LCD	
Display size, diagonal	6.5 in.		6.5 in.		9 in. widescreen	
Viewing area, WxH	132 x 99 mm		132 x 99 mm		196 x 118 mm	
Display resolution/aspect ratio	640 x 480 VGA, 4:3		640 x 480 VGA, 4:3		800 x 480 WVGA, 5:3	
Color depth	18-bit color graphics (262,144 colors)					
Brightness, typical	300 cd/m^2 (Nits)					
Backlight	LED, non-replaceable Life: 50,000 h min at 40° C to half-brightness					
Backlight power consumption, typical	3 W		3 W		3.5 W	
Touch screen	Analog resistive Actuation rating: 1 million presses Operating force: 100 grams		Analog resistive Actuation rating: 1 million presses Operating force: 100 grams		Analog resistive Actuation rating: 1 million presses Operating force: 100 grams	
Keypad	—		• Twelve function keys: L1…L6 , R1…R6 • Numeric keypad and navigation keys • Actuating rating: 1 million presses • Operating force: 300 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 RAM Use available	512 MB RAM 250 MB nonvolatile storage for projects					
Secure Digital (SD) card slot	One SD card slot for external storage; supports cat. n o. 1784-SD*x* cards					
USB ports Host Device	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) supports connection to host computer (available in a future release)					
Ethernet port	Two 10/100Base-T, Auto MDI/MDI-X Ethernet ports that support (device-level ring) DLR, linear, or star network topologies					
Status indicators	STS (green), ERR (red)					
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications					
Electrical						
USB host ports (type A)	0.5A at 5V DC					
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, max.	50 W max (2.1 A at 24V DC)	105VA	50 W max (2.1 A at 24V DC)	105VA	50 W max (2.1 A at 24V DC)	105VA
Power consumption, typical	15 W	40VA (16 W) at 240V AC	15 W	40VA (16 W) at 240V AC	16 W	44VA (17 W) at 240V AC
Inrush current, typical	7 A	50 A	7 A	50 A	7 A	50 A
Line frequency	—	50…60 Hz	—	50…60 Hz	—	50…60 Hz
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]	—
Mechanical						
Weight, approx.	1.2 kg (2.65 lb)		1.47 kg (3.25 lb)		1.58 kg (3.48 lb)	
Dimensions, HxWxD, approx.	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, HxW, approx.	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) 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.

Table 4 - Technical Specifications - PanelView 5500 Terminals - 10-inch and 12-inch

Attribute	10-in. Touch		10-in. Touch with Keypad		12-in. Touch	
	2715-T10CD	2715-T10CA	2715-B10CD	2715-B10CA	2715-T12WD	2715-T12WA
Operator Input	Touch plus menu navigation button		Touch with keypad plus menu navigation button		Touch plus menu navigation button	
Display type	Color TFT LCD		Color TFT LCD		Color TFT LCD	
Display size, diagonal	10.4 in.		10.4 in.		12.1 in. widescreen	
Viewing area, WxH	211 x 158 mm		211 x 158 mm		261 x 163 mm	
Display resolution/aspect ratio	800 x 600 SVGA, 4:3		800 x 600 SVGA, 4:3		1280 x 800 WXGA, 16:10	
Color depth	18-bit color graphics (262,144 colors)					
Brightness, typical	300 cd/m^2 (Nits)					
Backlight	LED, non-replaceable Life: 50,000 h min at 40° C to half-brightness					
Backlight power consumption, typical	3.5 W				5 W	
Touch screen	Analog resistive Actuation rating: 1 million presses Operating force: 100 grams					
Keypad	—		• 16 Function keys: L1…L8, R1…R8 • Numeric keypad and navigation keys • Actuating rating: 1 million presses • Operating force: 300 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 RAM User available	 512 MB 250 MB nonvolatile storage for projects					
Secure Digital (SD) card slot	One SD card slot for external storage; supports cat. n o. 1784-SD*x* cards					
USB ports Host Device	 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) supports connection to host computer (available in a future release)					
Ethernet port	Two 10/100Base-T, Auto MDI/MDI-X Ethernet ports that supports (device-level ring) DLR, linear, or star network topologies					
Status indicators	STS (green), ERR (red)					
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications					
Electrical						
USB host ports (type A)	0.5A at 5V DC					
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, max.	50 W max (2.1 A at 24V DC)	105VA	50 W max (2.1 A at 24V DC)	105VA	50 W max (2.1 A at 24V DC)	105VA
Power consumption, typical	15 W	43VA (17 W) at 240V AC	15 W	43VA (17 W) at 240V AC	18 W	49VA (20 W)
Inrush current	7 A	50 A	7 A	50 A	7 A	50 A
Line frequency	—	50…60 Hz	—	50…60 Hz	—	50…60 Hz
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]	—
Mechanical						
Weight, approx.	2.28 kg (5.03 lb)		2.58 kg (5.69 lb)		2.54 kg (5.60 lb)	
Dimensions, HxWxD, approx.	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.		246 x 340 x 69.6 mm 9.69 x 13.39 x 2.74 in.	
Cutout Dimensions, HxW, approx.	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.

Table 5 - Technical Specifications - PanelView 5500 Terminals - 15-inch and 19-inch

Attribute	15-in. Touch		15-in. Touch with Keypad		19-in. Touch	
	2715-T15CD	2715-T15CA	2715-B15CD	2715-B15CA	2715-T19CD	2715-T19CA
Operator Input	Touch plus menu navigation button		Touch with keypad plus menu navigation button		Touch plus menu navigation button	
Display type	Color TFT LCD					
Display size, diagonal	15 in.		15 in.		19 in.	
Viewing area, WxH	304 x 228 mm		304 x 228 mm		376 x 301 mm	
Display resolution/aspect ration	1024 x 768 XGA, 4:3		1024 x 768 XGA, 4:3		1280 x 1024 SXGA, 5:4	
Color depth	18-bit color graphics (262,144 colors)					
Brightness, typical	300 cd/m^2 (Nits)					
Backlight	LED, non-replaceable Life: 50,000 h min at 40° C to half-brightness					
Backlight power consumption, typical	5 W		5 W		18 W	
Touch screen	Analog resistive Actuation rating: 1 million presses Operating force: 100 grams					
Keypad	—		20 Function keys: L1…L10, R1…R10 Numeric keypad and navigation keys Actuating rating: 1 million presses Operating force: 300 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 RAM User available	512 MB 250 MB nonvolatile storage for projects					
Secure Digital (SD) card slot	One SD card slot for external storage; supports cat. n o. 1784-SD*x* cards					
USB ports Host Device	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) supports connection to host computer					
Ethernet port	Two 10/100Base-T, Auto MDI/MDI-X Ethernet ports supporting (device-level ring) DLR, linear, or star network topologies					
Software	Studio 5000 Environment provides single portal to View Designer and Logix Designer applications					
Electrical						
USB host ports (type A)	0.5A at 5V DC					
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, max.	50 W max (2.1 A at 24V DC)	105VA	50 W max (2.1 A at 24V DC)	105VA	50 W max (2.1 A at 24V DC)	105VA
Power consumption, typical	18 W	51VA (20 W)	18 W	51VA (20 W)	33 W	81VA (35 W)
Inrush current	7 A	50 A	7 A	50 A	7 A	50 A
Line frequency	—	50…60 Hz	—	50…60 Hz	—	50…60 Hz
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)	—
Mechanical						
Weight, approx.	3.69 kg (8.14 lb)		4.14 kg (9.13 lb)		5.62 kg (12.40 lb)	
Dimensions, HxWxD, approx.	318 x 381 x 69.6 mm 12.52 x 15.00 x 2.74 in.		329 x 484 x 69.6 mm 12.95 x 19.06 x 2.74 in.		411 x 485 x 69.6 mm 16.18 x 19.09 x 2.74 in.	
Dimensions, HxWxD, approx.	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

The table provides product dimensions for the PanelView 5500 platform. The 10.4-inch touch and combination keypad with touch devices are shown for illustrative purposes. All other terminal sizes look similar.

Figure 1 - PanelView 5500 Dimensions - 10.4-in. Model

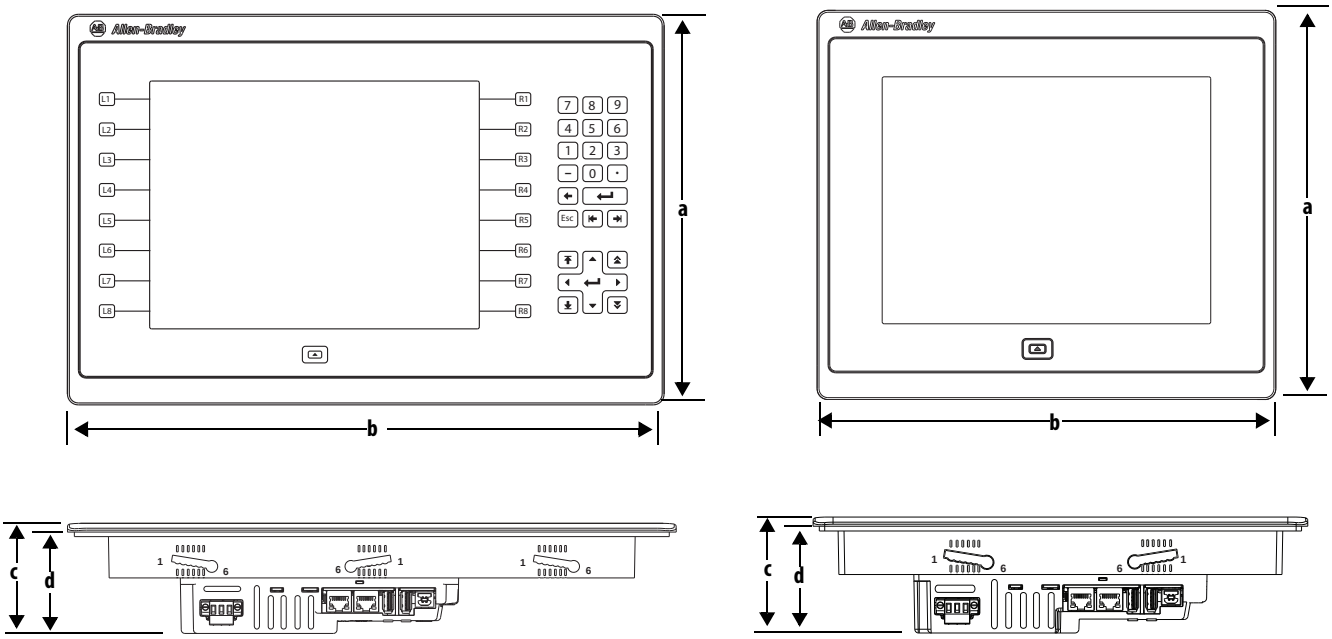


Table 6 - PanelView 5500 Dimensions

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)	69.6 (2.74)	63.6 (2.50)
9 in.	Touch	190 (7.48)	280 (11.02)	69.6 (2.74)	63.6 (2.50)
10.4 in.	Key/touch	252 (9.92)	385 (15.16)	69.6 (2.74)	63.6 (2.50)
	Touch	252 (9.92)	297 (11.69)	69.6 (2.74)	63.6 (2.50)
12.1 in.	Touch	246 (9.69)	340 (13.39)	69.6 (2.74)	63.6 (2.50)
15 in.	Key/touch	329 (12.95)	484 (19.06)	69.6 (2.74)	63.6 (2.50)
	Touch	318 (12.52)	381 (15.00)	69.6 (2.74)	63.6 (2.50)
19 in.	Touch	411 (16.18)	485 (19.09)	69.6 (2.74)	63.6 (2.50)

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

Studio 5000 Environment

Use the Studio 5000 environment to create HMI applications for the PanelView 5500 platform. This environment includes these major components:

- **View Designer -** the application where you create and design projects for a specific PanelView 5500 terminal and deploy that project to the terminal.

  A project that is created for one terminal size can be converted for other terminals across the entire 5500 platform, regardless of size.
- **Logix Designer** - the application that is used to develop control logic for a CompactLogix or ControlLogix controller and deploy that logic to the terminal.



In the Studio 5000 environment, you can create an application for any PanelView 5500 terminal and reuse that same application across the entire platform.

Accessories

Table 7...Table 12 list accessories for the PanelView 5500 terminals.

Table 7 - Protective Overlays

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

(1) Three overlays are shipped with each catalog number.

Table 8 - 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

Table 9 - Mounting Hardware

Cat. No.	Description	Quantity
2711P-RMCP[1]	Mounting levers	16

(1) These levers are also used with the PanelView Plus 7 Performance terminals.

Table 10 - Secure Digital (SD) Cards

Cat. No.	Description
1784-SD1	1 GB SD card
1784-SD2	2 GB SD card
2711C-RCSD	USB to SD adapter for SD card

Table 11 - USB Programming Cable

Cat. No.	Description	Length
6189V-USBCBL2	Programming cable that connects the device port of the terminal to a USB host port of a computer	1.8 m (5.9 ft)

Table 12 - Battery Replacement

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

Additional Resources

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

Resource	Description
Visualization Solutions Selection Guide, publication VIEW-SG001	Provides an overview of the visualization products (includes catalog number selections) that are offered by Rockwell Automation.
PanelView 5500 HMI Terminals User Manual, publication 2715-UM001	Provides information on how to install, operate, configure, and troubleshoot the PanelView 5500 terminals.
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, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at http://www.rockwellautomation.com/literature/. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Important User Information

Solid-state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (publication SGI-1.1 available from your local Rockwell Automation sales office or online at http://www.rockwellautomation.com/literature/) describes some important differences between solid-state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid-state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

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