

# PanelView 5510 Terminal Specifications

Catalog Numbers 2715P-B7CD, 2715P-B7CD-B, 2715P-T7CD, 2715P-T7CD-B, 2715P-T7WD, 2715P-T7WD-B, 2715P-T9WD, 2715P-T9WD-B, 2715P-B10CD, 2715P-B10CD-B, 2715P-T10CD, 2715P-T10CD-B, 2715P-T12WD, 2715P-T12WD-B, 2715P-B15CD, 2715P-B15CD-B, 2715P-T15CD, 2715P-T15CD-B, 2715P-T19CD, 2715P-T19CD-B

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The PanelView™ 5510 terminals are operator interface devices for monitoring and controlling devices that are attached to ControlLogix® L7 and L8, and CompactLogix™ L1, L2, and L3 controllers over an EtherNet/IP network. Animated graphic and text displays provide a view to operators 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 5510 terminals include these features and capabilities:

- Tightly integrated control and design environment allows information to be shared between the PanelView 5510 terminal and the Logix platforms.
- The Studio 5000® environment provides one point of access for the Studio 5000 View Designer® and Studio 5000 Logix Designer® applications.
- Connection to one ControlLogix L7 or L8, or CompactLogix L1, L2, or L3 controller with revision 31 firmware or later.
- Supports a maximum of 100 user-defined screens<sup>(1)</sup>.
- Supports a maximum of 1000 Logix-based alarms<sup>(1)</sup>.
- Ethernet communication that supports Device Level Ring (DLR), linear, or star network topologies.
- High-speed human machine interface (HMI) button control and easily configured navigation menu.

(1) Number to increase in future firmware.



## Environmental Specifications

This table provides environmental specifications for the PanelView 5510 terminals.

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

(1) The 19-inch terminals (2715P-T19CD and 2715P-T19CD-B) are rated to 0.006 pk-pk, 10...57 Hz, 1 g peak at 57...500 Hz.

(2) The 19-inch terminals (2715P-T19CD and 2715P-T19CD-B) are rated to 15 g at 11 ms.

## Certifications

This table provides certification information for the PanelView 5510 terminals.

Certification <sup>(1)</sup>	Value
ABS	See <a href="#">2715P-CT007</a>
c-UL-us	UL 121201 for use in Hazardous Locations, Class I, Division 2, Groups A, B, C and D; UL 61010-1, UL 61010-2-201, CAN/CSA-C22.2 No. 61010-1, and CAN/CSA-C22.2 No. 61010-2-201; see <a href="#">2715P-CT004</a>
CE (EMC)	European Union EMC Directive, compliance with: <ul style="list-style-type: none"> <li>EN 61131-2; Programmable Controllers (pertinent EMC sections); see <a href="#">2715P-CT003</a></li> </ul>
EAC	Russian Customs Union TP TC 020/2011 EMC Technical Regulation; see <a href="#">2715P-CT002</a>
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications; see <a href="#">2715P-CT001</a>
KC	KC registered; see <a href="#">2715P-CT005</a>
RCM	Australian Radiocommunications Act, compliance with: <ul style="list-style-type: none"> <li>EN 61000-6-4; Industrial Emissions; see <a href="#">2715P-CT006</a></li> </ul>
RoHS	<ul style="list-style-type: none"> <li>China RoHS</li> <li>European RoHS</li> <li>Turkey RoHS (EEE Yönetmeliğine Uygundur. In Conformity with the EEE Regulation.)</li> </ul>

(1) When marked. See Product Certifications at [rok.auto/certifications](http://rok.auto/certifications) for declarations of conformity, certificates, and other certification details.

## Technical Specifications

This section provides technical specifications for the PanelView 5510 terminals.

### Technical Specifications, PanelView 5510 Terminals – 6.5-in., 7-in., 9 in., and 10.4-in. models

Attribute	6.5-in. Touch	6.5-in. Touch with Keypad	7-in. Touch	9-in. Touch	10.4-in. Touch	10.4-in. Touch with Keypad
	2715P-T7CD 2715P-T7CD-B <sup>(1)</sup>	2715P-B7CD 2715P-B7CD-B <sup>(2)</sup>	2715P-T7WD 2715P-T7WD-B <sup>(2)</sup>	2715P-T9WD 2715P-T9WD-B <sup>(2)</sup>	2715P-T10CD 2715P-T10CD-B <sup>(2)</sup>	2715P-B10CD 2715P-B10CD-B <sup>(2)</sup>
Operator input	Touch plus menu navigation button	Touch with keypad plus menu navigation button	Touch plus menu navigation button			Touch with keypad plus menu navigation button
Display type	Color TFT LCD (thin-film-transistor, liquid-crystal display)					
Display size, diagonal	6.5-in.		7-in. widescreen	9-in. widescreen	10.4-in.	
Viewing area, W x H	132 x 99 mm (5.2 x 3.9 in.)		152 x 91 mm (6.0 x 3.6 in.)	196 x 118 mm (7.7 x 4.6 in.)	211 x 158 mm (8.3 x 6.2 in.)	
Display resolution/aspect ratio	640 x 480 VGA/4:3		800 x 480 WVGA/5:3		800 x 600 SVGA/4:3	
Color depth	24-bit color graphics (16.7 million colors)					
Brightness, typical	300 cd/m <sup>2</sup> (Nits)					
Backlight	<ul style="list-style-type: none"> <li>Light-emitting diode, non-replaceable</li> <li>Life: 50,000 h min at 40 °C (104 °F) to half-brightness</li> </ul>					
Backlight power consumption, typical	3 W			4 W		
Touch screen	<ul style="list-style-type: none"> <li>Analog resistive</li> <li>Actuation rating: 1 million presses</li> <li>Operating force: &lt;100 grams</li> </ul>					
Keypad	—	<ul style="list-style-type: none"> <li>12 function keys: L1...L6, R1...R6</li> <li>Numeric keypad and navigation keys</li> <li>Actuating rating: 1 million presses</li> <li>Operating force: 300 grams</li> </ul>	—		<ul style="list-style-type: none"> <li>16 function keys: L1...L8, R1...R8</li> <li>Numeric keypad and navigation keys</li> <li>Actuating rating: 1 million presses</li> <li>Operating force: 300 grams</li> </ul>	
Battery (real-time clock backup)	<ul style="list-style-type: none"> <li>Accuracy: +/-2 minutes per month.</li> <li>Battery life: 4 years min at 25 °C (77 °F)</li> <li>Replacement: CR2032 lithium coin cell</li> </ul>					
Memory	1 GB RAM					
RAM	1 GB nonvolatile storage for projects					
Use available	1 GB nonvolatile storage for projects					
Secure Digital (SD) card slot	One SD card slot for external storage; supports cat. no. 1784-SDx cards. See <a href="#">SD Cards on page 8</a> .					
USB ports	Two USB 2.0 high-speed (type A) host ports to support removable USB drives for external storage.					
Host	Two USB 2.0 high-speed (type A) host ports to support removable USB drives for external storage.					
Device	One USB 2.0 high-speed (type B) device port to connect to a host computer that is software-feature dependent.					
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 (status, green), ERR (error, red)					
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications.					

(Table continues on next page)

**Technical Specifications, PanelView 5510 Terminals – 6.5-in. 7-in., 9 in., and 10.4-in. models (continued)**

Attribute	6.5-in. Touch	6.5-in. Touch with Keypad	7-in. Touch	9-in. Touch	10.4-in. Touch	10.4-in. Touch with Keypad
	2715P-T7CD 2715P-T7CD-B <sup>(1)</sup>	2715P-B7CD 2715P-B7CD-B <sup>(2)</sup>	2715P-T7WD 2715P-T7WD-B <sup>(2)</sup>	2715P-T9WD 2715P-T9WD-B <sup>(2)</sup>	2715P-T10CD 2715P-T10CD-B <sup>(2)</sup>	2715P-B10CD 2715P-B10CD-B <sup>(2)</sup>
<b>Electrical</b>						
USB host ports (type A)	0.5 A at 5V DC					
Input voltage	24V DC nom (18...30V DC)					
Power consumption, max	22 W			24 W	25 W	
Power consumption, typical	12 W		17 W	14 W	15 W	
Power dissipation	51 BTU/hr.			55 BTU/hr.	51 BTU/hr.	
Inrush current, typical	7 A					
Power supply	Supports SELV and PELV 24V DC supplies <sup>(2)</sup>					
<b>Mechanical</b>						
Weight, approx	2 kg (4.4 lb)	2.27 kg (5 lb)	2 kg (4.4 lb)	2.42 kg (5.35 lb)	3.35 kg (7.4 lb)	3.72 kg (8.2 lb)
Terminal dimensions, approx	See <a href="#">PanelView 5510 Terminal and Cutout Dimensions on page 6.</a>					
Cutout dimensions, approx	See <a href="#">PanelView 5510 Terminal and Cutout Dimensions on page 6.</a>					

(1) Add -B to the end of a catalog number to order a terminal without the Allen-Bradley logo and product identification, for example, 2715-T7CD-B.  
 (2) 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.

**Technical Specifications, PanelView 5510 Terminals – 12.1-in., 15-in., and 19-in. models**

Attribute	12.1-in. Touch	15-in. Touch	15-in. Touch with Keypad	19-in. Touch
	2715P-T12WD 2715P-T12WD-B <sup>(1)</sup>	2715P-T15CD 2715P-T15CD-B <sup>(1)</sup>	2715P-B15CD 2715P-B15CD-B <sup>(1)</sup>	2715P-T19CD 2715P-T19CD-B <sup>(1)</sup>
Operator input	Touch plus menu navigation button		Touch with keypad plus menu navigation button	Touch plus menu navigation button
Display type	Color TFT LCD (thin-film-transistor, liquid-crystal display)			
Display size, diagonal	12.1-in. widescreen	15-in.		19-in.
Viewing area, W x H	261 x 163 mm (10.3 x 6.4)	304 x 228 mm (12 x 9 in.)		376 x 301 mm (14.8 x 11.9 in.)
Display resolution/aspect ratio	800 x 600 SVGA, 4:3	1024 x 768 XGA, 4:3		1280 x 800 WXGA, 16:10
Color depth	24-bit color graphics (16.7 million colors)			
Brightness, typical	300 cd/m <sup>2</sup> (Nits)			
Backlight	<ul style="list-style-type: none"> <li>Light-emitting diode, non-replaceable</li> <li>Life: 50,000 h min at 40 °C (104 °F) to half-brightness</li> </ul>			
Backlight power consumption, typical	5 W	8.5 W		18 W
Touch screen	<ul style="list-style-type: none"> <li>Analog resistive</li> <li>Actuation rating: 1 million presses</li> <li>Operating force: &lt;100 grams</li> </ul>			
Keypad	—		<ul style="list-style-type: none"> <li>20 function keys: L1...L10, R1...R10</li> <li>Numeric keypad and navigation keys</li> <li>Actuating rating: 1 million presses</li> <li>Operating force: 300 grams</li> </ul>	—
Battery (real-time clock backup)	<ul style="list-style-type: none"> <li>Accuracy: +/-2 minutes per month</li> <li>Battery life: 4 years min at 25 °C (77 °F)</li> <li>Replacement: CR2032 lithium coin cell</li> </ul>			
Memory				
RAM	1 GB			
User available	1 GB nonvolatile storage for projects			
Secure Digital (SD) card slot	One SD card slot for external storage; supports cat. no. 1784-SDx cards. See <a href="#">SD Cards on page 8</a> .			
USB ports				
Host	Two USB 2.0 high-speed (type A) host ports to support removable USB drives for external storage.			
Device	One USB 2.0 high-speed (type B) device port to connect to a host computer that is software-feature dependent.			
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 (status, green), ERR (error, red)			
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications.			
<b>Electrical</b>				
USB host ports (type A)	0.5 A at 5V DC			
Input voltage	24V DC nom (18...30V DC)			
Power consumption, max	26 W	33 W		43 W
Power consumption, typical	16 W	27 W		30 W
Power dissipation	62 BTU/hr.			113 BTU/hr.
Inrush current	7 A			
Power supply	Supports SELV and PELV 24V DC supplies <sup>(2)</sup>			
<b>Mechanical</b>				
Weight, approx	3.61 kg (7.96 lb)	4.77 kg (10.5 lb)	5.5 kg (12.13 lb)	7.5 kg (16.5 lb)
Terminal dimensions, approx	See <a href="#">PanelView 5510 Terminal and Cutout Dimensions on page 6</a> .			
Cutout dimensions, approx	See <a href="#">PanelView 5510 Terminal and Cutout Dimensions on page 6</a> .			

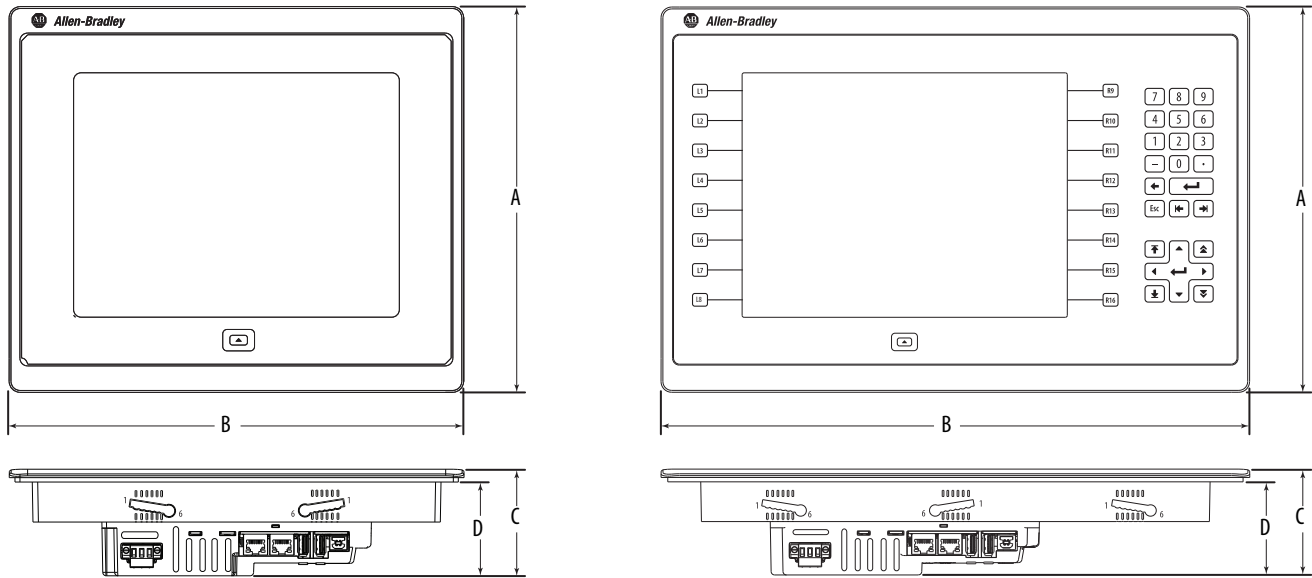
(1) Add -B to the end of a catalog number to order a terminal without the Allen-Bradley logo and product identification, for example, 2715-T7CD-B.

(2) 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.

## Terminal Dimensions

This section provides dimensions for the PanelView 5510 terminals. The 10.4-inch keypad and touch terminal is shown for illustrative purposes. All other terminal sizes look similar.

### PanelView 5510 Terminal Dimensions - (10.4-in. wide terminal shown)



### PanelView 5510 Terminal and Cutout Dimensions

Terminal Size	Input Type	Terminal Dimensions				Cutout Dimensions	
		Height (A) mm (in.)	Width (B) mm (in.)	Overall Depth (C) mm (in.)	Mounted Depth (D) mm (in.)	Height (A) mm (in.)	Width (B) mm (in.)
6.5-in.	Keypad and touch	178 (7.0)	285 (11.22)	69.5 (2.74)	64 (2.50) <sup>(1)</sup>	142 (5.59)	237 (9.33)
	Touch		212 (8.35)				184 (7.24)
7-in.	Touch	237 (9.3)	148 (5.82)			207 (8.15)	
9-in.	Touch	190 (7.48)	280 (11.02)			162 (6.38)	252 (9.92)
10.4-in.	Keypad and touch	252 (9.92)	385 (15.16)			224 (8.82)	335 (13.19)
	Touch		297 (11.69)			269 (10.59)	
12.1-in.	Touch	246 (9.69)	340 (13.39)			218 (8.58)	312 (12.28)
15-in.	Keypad and touch	329 (12.95)	484 (19.06)			290 (11.42)	418 (16.46)
	Touch	318 (12.52)	381 (15.00)	353 (13.90)			
19-in.	Touch	411 (16.18)	485 (19.09)	383 (15.08)	457 (17.99)		

(1) 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.

## Studio 5000 Environment

Use the Studio 5000 environment to create HMI applications for the PanelView 5510 terminal.



This environment includes these major components:

- **Studio 5000 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.

- **Studio 5000 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 5510 terminal and reuse that same application across the entire platform.

## Accessories

This section lists accessories for the PanelView 5510 terminals.

### Protective Overlays

Cat. No. <sup>(1)</sup>	Display Size	Operator Input	
		Touch	Key and Touch
2711P-RGT7SP	6.5-in.	•	
2711P-RGB7P			•
2711P-RGT7W	7-in. widescreen	•	
2711P-RGT9SP	9-in. widescreen	•	
2711P-RGT10SP	10.4-in.	•	
2711P-RGB10P			•
2711P-RGT12SP	12.1-in. widescreen	•	
2711P-RGT15SP	15-in.	•	
2711P-RGB15P			•
2711P-RGT19P	19-in.	•	

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

### 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, 100...250V AC, 50...60 Hz	1
2711P-RTBDSP	3-pin DC power terminal block (black with white labels for +, -, and gnd)	10

### 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)

### Mounting Hardware

Cat. No.	Description	Quantity
2711P-RMCP <sup>(1)</sup>	Mounting levers (black)	16

(1) Catalog number 2711P-RMCP mounting levers are used with the PanelView 5510 terminals. Do not use gray mounting levers; they are not compatible with PanelView 5510 terminals.

### Battery Replacement

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

### SD Cards<sup>(1)</sup>

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

(1) To reduce the chance of corruption when using SD Cards or USB drives with the terminal, Rockwell Automation recommends that you use SD Card catalog numbers 1784-SD1 or 1784-SD2.

## Additional Resources

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

Resource	Description
Visualization Solutions Selection Guide, publication <a href="#">VIEW-SG001</a>	Provides an overview of the visualization products (includes catalog number selections) offered by Rockwell Automation.
PanelView 5510 Terminals User Manual, publication <a href="#">2715P-UM001</a>	Provides information on how to install, operate, configure, and troubleshoot the PanelView 5510 terminals.
Industrial Automation Wiring and Grounding Guidelines, publication <a href="#">1770-4.1</a>	Provides general guidelines on how to install a Rockwell Automation industrial system.
Product Certifications website, <a href="http://rok.auto/certifications">rok.auto/certifications</a>	Provides declarations of conformity, certificates, and other certification details.

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



**Notes:**

## Rockwell Automation Support

Use the following resources to access support information.

<b>Technical Support Center</b>	Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.	<a href="http://www.rockwellautomation.com/knowledgebase">www.rockwellautomation.com/knowledgebase</a>
<b>Local Technical Support Phone Numbers</b>	Locate the phone number for your country.	<a href="http://www.rockwellautomation.com/global/support/get-support-now.page">www.rockwellautomation.com/global/support/get-support-now.page</a>
<b>Direct Dial Codes</b>	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	<a href="http://www.rockwellautomation.com/global/support/direct-dial.page">www.rockwellautomation.com/global/support/direct-dial.page</a>
<b>Literature Library</b>	Installation Instructions, Manuals, Brochures, and Technical Data.	<a href="http://www.rockwellautomation.com/literature">www.rockwellautomation.com/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Get help determining how products interact, check features and capabilities, and find associated firmware.	<a href="http://www.rockwellautomation.com/global/support/pcdc.page">www.rockwellautomation.com/global/support/pcdc.page</a>

## Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete the How Are We Doing? form at [http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002\\_-en-e.pdf](http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002_-en-e.pdf).

Rockwell Automation maintains current product environmental information on its website at <http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page>.

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