Technical Specifications

This section provides technical specifications for the PanelView 5310 terminals.

Technical Specifications - PanelView 5310 Terminals

Attribute	6-in. Touch 2713P-T6CD1 2713P-T6CD1-B[1] 2713P-T6CD1-K[2]	7-in. Wide Touch 2713P-T7WD1 2713P-T7WD1-B[1] 2713P-T7WD1-K[2]	9-in. Wide Touch 2713P-T9WD1 2713P-T9WD1-B[1] 2713P-T9WD1-K[2]	10.4-in. Touch 2713P-T10CD1 2713P-T10CD1-B[1] 2713P-T10CD1-K[2]	12.1-in. Wide Touch 2713P-T12WD1 2713P-T12WD1-B[1] 2713P-T12WD1-K[2]
Operator input	Touch				
Conformal coated	Yes				
Display type	Color TFT LCD (thin-film-transistor, liquid-crystal display)				
Display size, diagonal	5.7-in. screen	7-in. widescreen	9-in. widescreen	10.4-in. screen	12.1-in. widescreen
View area, W x H	115 x 86 mm (4.5 x 3.4 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.)	261 x 163 mm (10.3 x 6.4 in.)
Display resolution/ aspect ratio	640 x 480 VGA/4:3	800 x 480 WVGA/5:3	800 x 480 WVGA/5:3	800 x 600 SVGA/4:3	1280 x 800 WXGA/16:10
Color depth	24-bit color graphics (16.7 million colors)				
Brightness, typical	300 cd/m^2 (Nits)				
Backlight	• Light-emitting diode, non-replaceable • Life: 50,000 h min at 40 °C (104 °F) to half-brightness				
Backlight power consumption, typical	2.4 W	3 W	3.5 W	4 W	5 W
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 RAM User available	1 GB RAM 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 Secure Digital (SD) Cards on page 7.				
USB ports Host Device	One USB high-speed 2.0 host port (type A) supports removable 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	One 10/100Base-T, Auto MDI/MDI-X Ethernet port for controller communication.				
Status indicators	STS (status, green), ERR (error, red)				
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications.				
Electrical					
USB host port (type A)	0.5 A at 5V DC				
Input voltage	24V DC nom (18…30V DC)				
Power consumption, max	13 W		14 W	15 W	16 W
Power consumption, typical	9 W		11 W	12 W	12 W
Power dissipation	31 BTU/hr.		38 BTU/hr.	41 BTU/hr.	41 BTU/hr.
Inrush current, max	15 A				

Technical Specifications - PanelView 5310 Terminals (Continued)

Attribute	6-in. Touch 2713P-T6CD1 2713P-T6CD1-B[1] 2713P-T6CD1-K[2]	7-in. Wide Touch 2713P-T7WD1 2713P-T7WD1-B[1] 2713P-T7WD1-K[2]	9-in. Wide Touch 2713P-T9WD1 2713P-T9WD1-B[1] 2713P-T9WD1-K[2]	10.4-in. Touch 2713P-T10CD1 2713P-T10CD1-B[1] 2713P-T10CD1-K[2]	12.1-in. Wide Touch 2713P-T12WD1 2713P-T12WD1-B[1] 2713P-T12WD1-K[2]
Power supply	Supports safety extra low voltage and protected extra low voltage 24V DC supplies[3][4]				
Mechanical					
Weight, approx. net	0.79 kg (1.74 lb)	1.1 kg (2.43 lb)	1.38 kg (3.04 lb)	2.08 kg (4.59 lb)	2.34 kg (5.16 lb)
Terminal dimensions, approx	See PanelView 5310 Terminal and Cutout Dimensions on page 6.				
Cutout dimensions, approx	See PanelView 5310 Terminal and Cutout Dimensions on page 6.				

(1) Add -B to the end of a catalog number to order a terminal without the Allen-Bradley® logo and product identification, for example, 2713P-T7WD1-B.
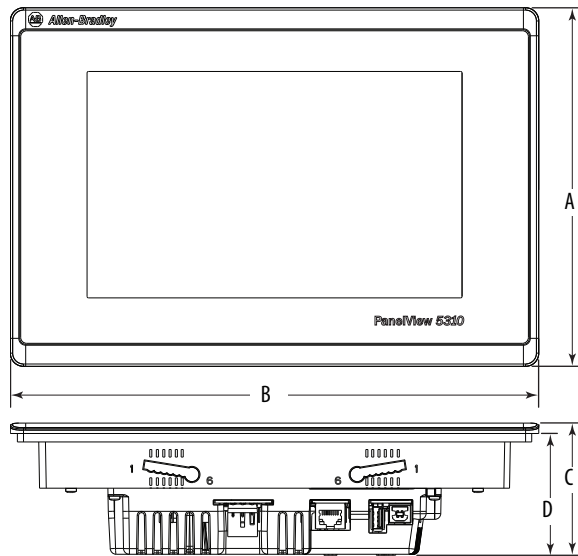
(2) Add -K to the end of a catalog number to order a terminal with conformal coating, for example, 2713P-T6CD1-K.

(3) DC-powered terminals support safety extra low voltage (SELV) and protective extra-low voltage (protected extra low voltage) 24V DC power supplies, such as catalog numbers 1606-XLP95E, 1606-XLP100E, and 2711P-RSACDIN.

(4) Where PELV is defined in IEC 61131-2.

Terminal Dimensions

This section provides dimensions for the PanelView 5310 terminals. The 9-inch (228.6 mm) widescreen terminal is shown for illustrative purposes. All other terminal sizes look similar.

PanelView 5310 Terminal Dimensions - (9-in. (228.6 mm) widescreen terminal shown)

PanelView 5310 Terminal and Cutout Dimensions

Terminal Size (in.)	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	Touch	153 (6.0)	186 (7.3)	69.5 (2.74)	64 (2.5)[1]	123 (4.84)	156 (6.14)
7		178 (7.0)	237 (9.3)			148 (5.82)	207 (8.15)
9		190 (7.48)	280 (11.02)			162 (6.38)	252 (9.92)
10.4		252 (9.92)	297 (11.69)			224 (8.82)	269 (10.59)
12.1		246 (9.69)	340 (13.39)			218 (8.58)	312 (12.28)

(1) When mounted in a panel, the front of the bezel extends less than 6 mm (0.24 in.) from the panel.

Studio 5000 Environment

Use the Studio 5000 environment to create HMI applications for the PanelView 5310 terminal platform. This environment includes these major components:

- **Studio 5000 View Designer** – you can create and design a project for a specific PanelView 5310 terminal and download the project to the terminal.

  You can create an application for any PanelView 5310 terminal and reuse that same application across the entire platform.

- **Studio 5000 Logix Designer** – you can develop control logic for a CompactLogix or ControlLogix controller and download the logic to the controller.

Accessories

This section lists accessories for the PanelView 5310 terminals.

Protective Overlays

Cat. No.[1]	Display Size	Quantity
2711P-RGT6S	6-in.	3
2711P-RGT7SP	7-in. widescreen	
2711P-RGT9SP	9-in. widescreen	
2711P-RGT10SP	10.4-in.	
2711P-RGT12SP	12.1-in. widescreen	

(1) Although these protective overlays were designed for the PanelView 5510 terminals, they can also be used for the PanelView 5310 terminals. However, when these overlays are used on a PanelView 5310 terminal, there is an increased air gap between the overlay and the terminal screen.