



PanelView 5310 Graphic Terminals

Catalog Numbers 2713P-T6CD1, 2713P-T6CD1-B, 2713P-T6CD1-K, 2713P-T7WD1, 2713P-T7WD1-B, 2713P-T7WD1-K, 2713P-T9WD1, 2713P-T9WD1-B, 2713P-T9WD1-K, 2713P-T10CD1, 2713P-T10CD1-B, 2713P-T10CD1-K, 2713P-T12WD1, 2713P-T12WD1-B, 2713P-T12WD1-K

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page
Relocated Studio 5000 content from the Technical Data section to Product Overview section	3
Updated the Corrosive Atmosphere value from 'per 3 days' to 'per 30 days' in Environment Specifications	5
Updated the Severity Level value from 'GX' to 'G3' in Environment Specifications	5

Product Overview

The PanelView™ 5310 graphic terminals are operator interface devices that monitor and control devices attached to ControlLogix® 5570 and 5580 controllers, and CompactLogix™ 5370, 5380, and 5480 controllers over an EtherNet/IP™ network using firmware V27 or later. Animated graphic and text displays provide operators with a view into the operating state of a machine or process. Operators interact with the control system by using the touch screen.

The PanelView 5310 graphic terminals include these additional features and capabilities:

- Tightly integrated control and design environment allows information to be shared between the PanelView 5310 graphic terminal and the Logix platforms.
- Easily configured screen navigation menu.
- Conformal coating available for all graphic terminal sizes.
- Automatic Diagnostics capability.
- Use of the Studio 5000® environment provides one point of access for the Studio 5000 View Designer® and Studio 5000 Logix Designer® applications ^(a).
- Supports a maximum of 100 user-defined screens.
- Supports a maximum of 4,000 Logix-based alarms ^(a).

Studio 5000 Environment

Use the Studio 5000 environment to create human machine interface (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 graphic terminal and download the project to the graphic terminal. You can create an application for any PanelView 5310 graphic 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.



(a) PanelView 5310 firmware can support up to 4,000 Logix-based alarms in a single controller if you use Studio 5000 View Designer application version 5 and Studio 5000 Logix Designer application version 32 or later. Of the 4,000 alarms, no more than 1,000 can be instruction-based. Earlier versions of the Studio 5000 View Designer or Studio 5000 Logix Designer applications can support up to 1,000 Logix-based alarms.

Technical Specifications

This section provides technical specifications for the PanelView™ 5310 graphic terminals.

Table 1 - Product Specifications

Attribute	6 in. Display	7 in. Display	9 in. Display	10.4 in. Display	12.1 in. Display
	Cat. No. 2713P-T6CD1 (1)	Cat. No. 2713P-T7WD1 (1)	Cat. No. 2713P-T9WD1 (1)	Cat. No. 2713P-T10CD1 (1)	Cat. No. 2713P-T12WD1 (1)
Display					
Operator Input	Touch				
Conformal Coated	Yes				
Display Type	Color thin-film-transistor (TFT), liquid-crystal display (LCD)				
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 [mm (in.)]	115 x 86 (4.50 x 3.40)	152 x 91 (6.00 x 3.60)	196 x 118 (7.70 x 4.60)	211 x 158 (8.30 x 6.20)	261 x 163 (10.30 x 6.40)
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				
Overall Specifications					
Net Weight	0.79 kg (1.74 lb)				
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications				
Internal Components, Status Indicators, and I/O Ports					
RTC (Real-time Clock) Battery Backup	Accuracy: +/-2 minutes per month. Battery life: 4 years min at 25 °C (77 °F) Replacement: CR2032 lithium coin cell				
Memory	RAM	1 GB			
	User Available	1 GB nonvolatile storage for projects			
Secure Digital™ (SD) Card Slot	SD card slot for external storage, quantity of 1 slot; supports SD cards listed in Table 5 on page 7				
USB Ports	Host	USB high-speed 2.0 host port (type A), quantity of 1; supports removable drives for external storage			
	Device	High-speed 2.0 device port (type B), quantity of 1; 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)				
Electrical					
USB Host Port (Type A)	0.5 A at 5V DC				
Input Voltage	24V DC nominal (18...30V DC)				
Power Consumption, Max	13 W	13 W	14 W	15 W	16 W
Power Consumption, Typical	9 W	9 W	11 W	12 W	12 W
Power Dissipation	31 BTU/hour	31 BTU/hour	38 BTU/hour	41 BTU/hour	41 BTU/hour
Inrush Current, Max	15 A				
Power Supply	Supports safety extra low voltage and protected extra low voltage 24V DC supplies ^{(2) (3)}				

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

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

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

Table 2 - Environment Specifications

Attribute		Value
Temperature	Operating	0...50 °C (32...122 °F)
	Non-operating	-25...+70 °C (-13...+158 °F)
Relative Humidity		5...95% without condensation
Vibration		0.012 pk-pk, 10...57 Hz 2 g peak at 57...500 Hz
Shock	Operating	15 g at 11 ms
	Non-operating	30 g at 11 ms
Altitude	Operating	Sea level to 2,000 m (6562 ft)
Enclosure Ratings		NEMA and UL Type 4X, 12, 13, and classified by UL as IP66 (when mounted on a flat surface of an equivalent enclosure)
Corrosive Atmosphere ASTM B845-97 Method K Accelerated Test (30 Day Exposure)		For PanelView 5310 conformal-coated PCBA level products with catalog numbers that end in K, product meets or exceeds the following requirement: <ul style="list-style-type: none"> Severity Level G3 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.

Table 3 - Certifications

Certification ⁽¹⁾	Value
c-UL-us	c-UL-us Listed to UL 61010-1, UL 61010-2-201, CAN/CSA-C22.2 No. 61010-1, and CAN/CSA-C22.2 No. 61010-2-201; see 2713P-CT002
CE (EMC)	European Union EMC Directive, compliance with: EN 61131-2; Programmable Controllers (pertinent EMC sections); see 2713P-CT004
EAC	Russian Customs Union TP TC 020/2011 EMC Technical Regulation; see 2713P-CT001
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications; see 2713P-CT005
KC	KC registered; see 2713P-CT001
RCM	Australian Radiocommunications Act, compliance with: EN 61000-6-4; Industrial Emissions; see 2713P-CT003
Morocco	Moroccan EMC Directive, compliance with: NM EN 61131-2; Programmable Controllers EMC; see 2713P-CT008
RoHS	China RoHS European RoHS Turkey RoHS (EEE Yönetmeliğine Uygunudur. In Conformity with the EEE Regulation.) UAE RoHS ENV-CT001

(1) When marked. See the Rockwell Automation® Product Certifications site, rok.auto/certifications, for declarations of conformity, certificates, and other certification details.

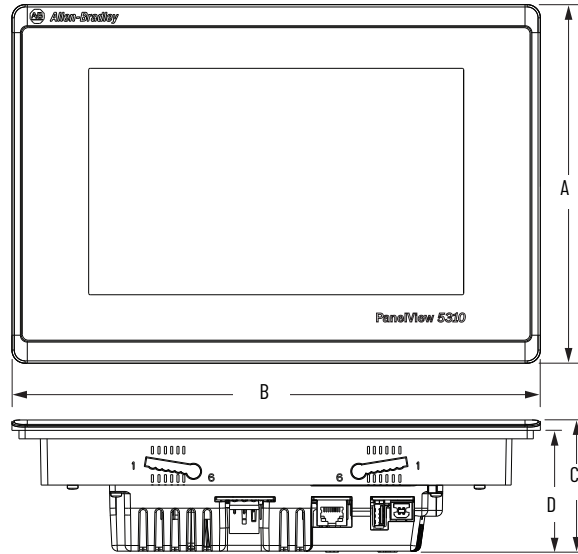
Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.



The 9 in. widescreen terminal is shown for illustrative purposes. All other terminal sizes look similar.

Table 4 - Approximate Dimensions [mm (in.)]



Display Size	Input Type	Graphic Terminal Dimensions				Cutout Dimensions	
		Height (A)	Width (B)	Overall Depth (C)	Mounted Depth (D)	Height (A)	Width (B)
6 in.	Touch	153 (6.00)	186 (7.30)	69.5 (2.74)	64 (2.50) ⁽¹⁾	123 (4.84)	156 (6.14)
7 in.		178 (7.00)	237 (9.30)			148 (5.82)	207 (8.15)
9 in.		190 (7.48)	280 (11.02)			162 (6.38)	252 (9.92)
10.4 in.		252 (9.92)	297 (11.69)			224 (8.82)	269 (10.59)
12.1 in.		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.

Accessories

IMPORTANT The Secure Digital™ High Capacity (SDHC) cards listed in [Table 5](#) have been designed to meet industrial robustness and environmental requirements. Rockwell Automation recommends that you use these accessory cards with your graphics terminal to help reduce the chance of corruption. Studio 5000® View Designer software requires that SDHC cards that is inserted into a human machine interface (HMI) device have:

- 4 GB of free space,
- a supported SDHC card type, preferably a SDHC card listed in [Table 5](#),
- an environmental rating for the PanelView 5000 environment, and
- a supported format of either file allocation table 32 (FAT32) or third extended file system (ext3).

Table 5 - Accessories

Accessory	Description	For Use Display Size	Catalog Number
3-pin DC Power Terminal Block	quantity of 10	All	2711-TBDC
DIN Rail Power Supply, 24...28V DC Output Voltage	120 W (quantity of 1)	All	1606-XLB120E
	100 W (quantity of 1)		1606-XLP100E
	95 W (quantity of 1)		1606-XLP95E
Mounting Levers	black in color	All	2711P-RMCP ⁽¹⁾
Protective Overlay ⁽²⁾	quantity of 3	6 in.	2711P-RGT6S
		7 in. Widescreen	2711P-RGT7SP
		9 in. Widescreen	2711P-RGT9SP
		10.4 in.	2711P-RGT10SP
		12.1 in. Widescreen	2711P-RGT12SP
Secure Digital (SD) Cards ⁽³⁾	8-GB SDHC card	All	1784-SD HC8
	32-GB SDHC card	All	1784-SD HC32
USB Programming Cable	1.8 m (5.9 ft) length programming cable that connects the device port of the terminal to a USB host port of a computer	All	6189V-USBCBL2

(1) Only use Catalog Number 2711P-RMCP mounting levers with PanelView 5310 graphic terminals. Do not use gray mounting levers as they are not compatible with PanelView 5310 graphic terminals.
 (2) Although the protective overlays listed are designed for PanelView 5510 graphic terminals, these protective overlays can also be used on PanelView 5310 graphic terminals. However, when these protective overlays are used on a PanelView 5310 graphic terminal, there is an increased air gap between the protective overlay and the screen.
 (3) To help reduce the chance of corruption, when SD cards or USB drives are used with the graphics terminal, Rockwell Automation recommends that you only use either a Catalog Number 1784-SD HC8 or a Catalog Number 1784-SD HC32 SD card.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
Visualization Solutions Selection Guide, publication VIEW-SG001	Provides an overview of the visualization products (includes catalog number selections) offered by Rockwell Automation.
PanelView 5310 Terminals User Manual, publication 2713P-UM001	Provides information on how to install, operate, configure, and troubleshoot the PanelView 5310 terminals.
EtherNet/IP Network Devices User Manual, ENET-UM006	Describes how to configure and use EtherNet/IP devices to communicate on the EtherNet/IP network.
Ethernet Reference Manual, ENET-RM002	Describes basic Ethernet concepts, infrastructure components, and infrastructure features.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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