Allen-Bradley

PanelView 5500 Terminal Specifications

Catalog Numbers 2715-T7CD, 2715-T7CD-B, 2715-T7CA, 2715-T7CA-B, 2715-B7CD, 2715-B7CD-B, 2715-B7CA, 2715-B7CA-B, 2715-T9WD, 2715-T9WD-B, 2715-T9WA, 2715-T9WA-B, 2715-T10CD, 2715-T10CD-B, 2715-T10CA, 2715-T10CA-B, 2715-B10CD, 2715-B10CD-B, 2715-B10CA, 2715-B10CA-B, 2715-T12WD, 2715-T12WD-B, 2715-T12WA, 2715-T12WA-B, 2715-T15CD, 2715-T15CD-B, 2715-15CA, 2715-15CA-B, 2715-B15CD, 2715-B15CD-B, 2715-B15CA, 2715-B15CA-B, 2715-T19CD, 2715-T19CD-B, 2715-T19CA, 2715-T19CA-B

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The PanelView™ 5500 terminals are operator interface devices for monitoring and controlling devices that are attached to ControlLogix® 5570 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 View Designer and Logix Designer applications.
- Connection to one ControlLogix 5570 or CompactLogix L1, L2, or L3 controller with revision 27 firmware or later.
- Supports a maximum of 50 user-defined screens (the screens will increase in future firmware).
- Supports a maximum of 500 Logix-based alarms (the alarms 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.

Summary of Changes

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

Topic	Page
Added “indoor use only” to the NEMA 4X enclosure rating information.	2

Environmental Specifications

This table provides environmental specifications for the PanelView 5500 terminals.

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 2 g 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 (indoor use only), 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, 1 g peak at 57...640 Hz.

Certifications

This table provides certification information for the PanelView 5500 terminals.

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 Radiocommunications 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.rockwellautomation.com/global/certification/overview.page for declarations of conformity, certificates, and other certification details.

Technical Specifications

This section provides technical specifications for the PanelView 5500 terminals.

Technical Specifications - PanelView 5500 Terminals (6.5-inch and 9-inch)

Attribute	6.5-in. Touch		6.5-in. Touch with Keypad		9-in. Touch	
	2715-T7CD 2715-T7CD-B (1)	2715-T7CA 2715-T7CA-B (1)	2715-B7CD 2715-B7CD -B (1)	2715-B7CA 2715-B7CA-B (1)	2715-T9WD 2715-T9WD-B (1)	2715-T9WA 2715-T9WA-B (1)
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	6.5-in.		6.5-in.		9-in. widescreen	
Viewing area, W x H	132 x 99 mm (5.2 x 3.9 in.)		132 x 99 mm (5.2 x 3.9 in.)		196 x 118 mm (7.7 x 4.6 in.)	
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	Light-emitting diode, non-replaceable Life: 50,000 h min at 40 °C (104 °F) 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	—		• 12 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. no. 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 (status, green), ERR (error, red)					
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications.					
Electrical						
USB host ports (type A)	0.5 A 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(2)	—	Supports SELV and PELV 24V DC supplies(2)	—	Supports SELV and PELV 24V DC supplies(2)	—
Mechanical						
Weight, approx	1.2 kg (2.65 lb)		1.47 kg (3.25 lb)		1.58 kg (3.48 lb)	
Dimensions, H x W x D, 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, H x W, 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) 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 5500 Terminals (10.4-inch and 12.1-inch)

Attribute	10.4-in. Touch		10.4-in. Touch with Keypad		12.1-in. Touch	
	2715-T10CD 2715-T10CD-B (1)	2715-T10CA 2715-T10CA-B (1)	2715-B10CD 2715-B10CD-B (1)	2715-B10CA 2715-B10CA-B (1)	2715-T12WD 2715-T12WD-B (1)	2715-T12WA 2715-T12WA-B (1)
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	10.4-in.		10.4-in.		12.1-in. widescreen	
Viewing area, W x H	211 x 158 mm (8.3 x 6.2 in.)		211 x 158 mm (8.3 x 6.2 in.)		261 x 163 mm (10.3 x 6.4)	
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	Light-emitting diode, non-replaceable Life: 50,000 h min at 40° C (104 °F) 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. no. 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 (status, green), ERR (error, red)					
Software	Studio 5000 environment provides single portal to View Designer and Logix Designer applications.					
Electrical						
USB host ports (type A)	0.5 A 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(2)	—	Supports SELV and PELV 24V DC supplies(2)	—	Supports SELV and PELV 24V DC supplies(2)	—
Mechanical						
Weight, approx	2.28 kg (5.03 lb)		2.58 kg (5.69 lb)		2.54 kg (5.60 lb)	
Dimensions, H x W x D, 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, H x W, 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) 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 5500 Terminals (15-inch and 19-inch)

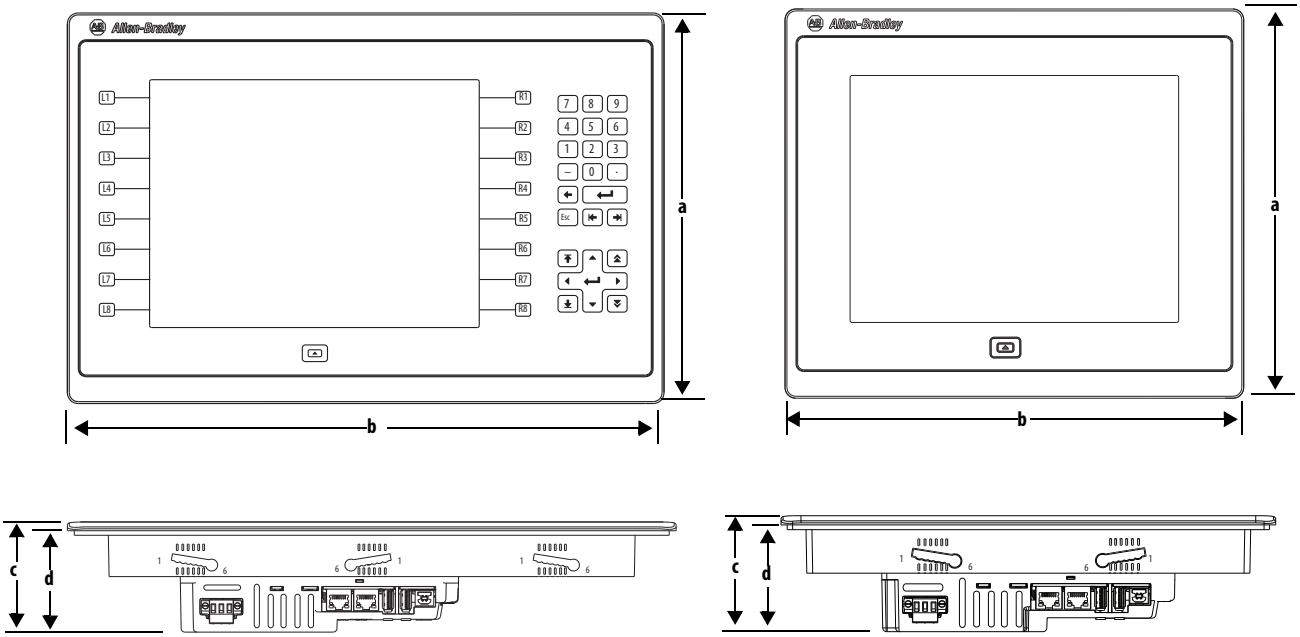
Attribute	15-in. Touch		15-in. Touch with Keypad		19-in. Touch	
	2715-T15CD 2715-T15CD -B (1)	**2715-T15CA 2715-T15CA-B (1)**	**2715-B15CD 2715-B15CD-B (1)**	**2715-B15CA 2715-B15CA-B (1)**	**2715-T19CD 2715-T19CD-B (1)**	**2715-T19CA 2715-T19CA-B (1)**
Operator input	Touch plus menu navigation button		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	15-in.		15-in.		19-in.	
Viewing area, W x H	304 x 228 mm (12 x 9 in.)		304 x 228 mm (12 x 9 in.)		376 x 301 mm (14.8 x 11.9 in.)	
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	Light-emitting diode, non-replaceable Life: 50,000 h min at 40° C (104 °F) 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. no. 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 (status, green), ERR (error, red)					
Software	Studio 5000 Environment provides single portal to View Designer and Logix Designer applications.					
Electrical						
USB host ports (type A)	0.5 A 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(2)	—	Supports SELV and PELV 24V DC supplies(2)	—	Supports SELV and PELV 24V DC supplies(2)	—
Mechanical						
Weight, approx	3.69 kg (8.14 lb)		4.14 kg (9.13 lb)		5.62 kg (12.40 lb)	
Dimensions, H x W x D, 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.)	
Cutout dimensions, H x W, 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) 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.

Product Dimensions

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

PanelView 5500 Terminal Dimensions - (10.4-in. Model Shown)



PanelView 5500 Terminal 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)		
9-in.	Touch	190 (7.48)	280 (11.02)		
10.4-in.	Key/touch	252 (9.92)	385 (15.16)		
	Touch	252 (9.92)	297 (11.69)		
12.1-in.	Touch	246 (9.69)	340 (13.39)		
15-in.	Key/touch	329 (12.95)	484 (19.06)		
	Touch	318 (12.52)	381 (15.00)		
19-in.	Touch	411 (16.18)	485 (19.09)		

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 terminal platform. 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 5500 terminal and reuse that same application across the entire platform.

Accessories

This section lists accessories for the PanelView 5500 terminals.

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.

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

Mounting Hardware

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

(1) Catalog number 2711P-RMCP mounting levers are used with the PanelView 5500 terminals. Do not use gray mounting levers; they are not compatible with PanelView 5500 terminals.

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

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)

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) offered by Rockwell Automation.
PanelView 5500 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.rockwellautomation.com/global/certification/overview.page	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at http://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.

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

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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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