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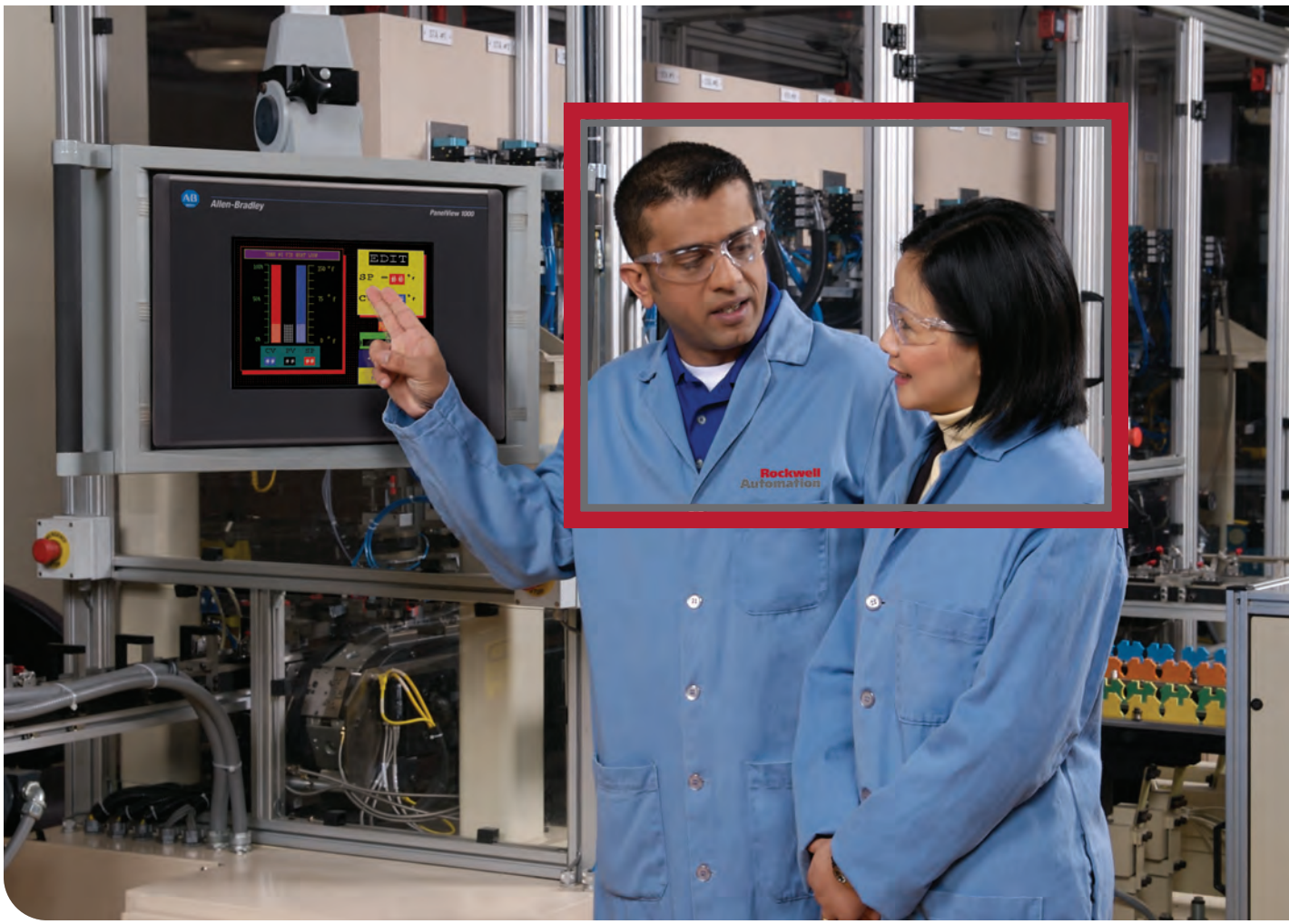
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LISTEN.
THINK.
SOLVE.SM

PANELVIEW™ STANDARD



PANELVIEW STANDARD
ELECTRONIC OPERATOR INTERFACE GRAPHIC TERMINALS

PROVEN PERFORMANCE. LEGENDARY RELIABILITY.

ALLEN-BRADLEY • ROCKWELL SOFTWARE

Rockwell Automation

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PanelView STANDARD

PROVEN PERFORMANCE. LEGENDARY RELIABILITY.

No doubt about it. To keep your operations running at an optimal level, you need readily accessible information. Real-time information delivered in a platform that easily interfaces with your system networks – and withstands the demands of your industrial environment.

You can rely on Allen-Bradley® PanelView Standard graphic terminals to do just that.

For more than 10 years, manufacturers and machine builders alike have put scalable, easy-to-use PanelView Standard products to the test in standalone and network environments. From automotive and petrochemical plants to food and beverage processing facilities, these rugged graphic terminals have built a reputation for dependability – while providing operators with the information they need to maximize productivity.

Learn why thousands of industry leaders around the world return again and again to the PanelView Standard platform for cost-effective electronic interface solutions.

Time-tested PanelView Standard graphic terminals.
Proven performance.
Legendary reliability.





Our PanelView Standard family is scalable to meet a wide range of applications. Each terminal carries UL, C-UL/CSA and CE certifications. They are rated for NEMA 4X (indoor), IP54 and IP65, and approved for Class 1, 2 and 3, Division 2, Zone 2 operation.

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PanelView Standard terminals support ATA memory card usage.

WHAT CAN YOU EXPECT FROM PANELVIEW STANDARD TERMINALS?

When you choose the PanelView Standard family, you are assured an interface solution designed by a leader in technological innovation – Rockwell Automation. A solution backed by one of the highest levels of customer support in the industry.

In addition, you can expect a full range of easy-to-use features and options designed to maximize your flexibility:

- Over 170 terminal combinations to fit any operator interface application
- 8 display combinations, from 3-inch to 10-inch, in color, grayscale or monochrome, each designed for minimal installation depth with maximum viewing angles
- Keypad, touch screen or keypad/touch screen combinations for convenient and flexible operator input
- RS-232 printer port to print alarms, alarm lists, triggered messages and triggered states of a multi-state indicator
- ATA PC Flash memory cards for fast application downloads, convenient storage of Universal Language Support fonts and simplified firmware upgrades
- Field-replaceable backlights to extend screen life of PanelView 600 and 1000 color terminals
- 100,000 hour LED backlight for PanelView 300, 300 Micro and 550

FLEXIBLE COMMUNICATION OPTIONS

With PanelView Standard, you are assured an interface solution with flexible communication options to match the demands of your control or process architecture. Network connections include:

- *EtherNet/IP*
- *ControlNet™*
- *DeviceNet™*
- *Data Highway Plus™*
- *Remote I/O*
- *DH-485*
- *RS-232 (DH-485 protocol)*
- *RS-232 (DF1 protocol)*



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OPTIONS

MATCHED TO YOUR REQUIREMENTS.

Whether your application requires a compact, text-only display or complete color graphics, our flexible PanelView Standard family will meet your needs. We've designed our broad product offerings to help ensure you receive the high performance your application demands – very cost-effectively.



PanelView 300 and 300 Micro

For applications that require a compact, less expensive interface, choose a PanelView 300 or 300 Micro terminal. These LCD monochrome graphic displays are designed for low-end graphical or text only operator interface applications.



PanelView 550

Keypad, touch screen or keypad/touch screen combination

Looking for a cost-effective operator interface solution for an application or machine with limited panel space? Explore the capabilities of the PanelView 550 pixel graphic display terminal. PanelView 550 terminals offer a flat panel blue-mode display with long-life backlight to lower the cost of ownership.

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A wide range of PanelView Standard accessories and replacement parts is also available to complement your solution including memory cards, power supply and terminal blocks, backlights and more.



PanelView 600

Keypad, touch screen or keypad/touch screen combination

When color graphics are required and panel space is limited, a PanelView 600 terminal could be your ideal solution. Feature-rich PanelView 600 color terminals offer 10 relegendable function keys plus keypad, keypad/touch screen and touch screen-only options.



PanelView 1000

Keypad, touch screen or keypad/touch screen combination

The PanelView 1000 terminal's display choices, modest installed depth, operator input capabilities, alarm functions and communication options make it a popular workhorse. Choose between keypad or touch screen input with either color or grayscale display and seven different network connections.

PanelBuilder32

HIGH PERFORMANCE FUNCTIONALITY. SIMPLE CONFIGURATION.

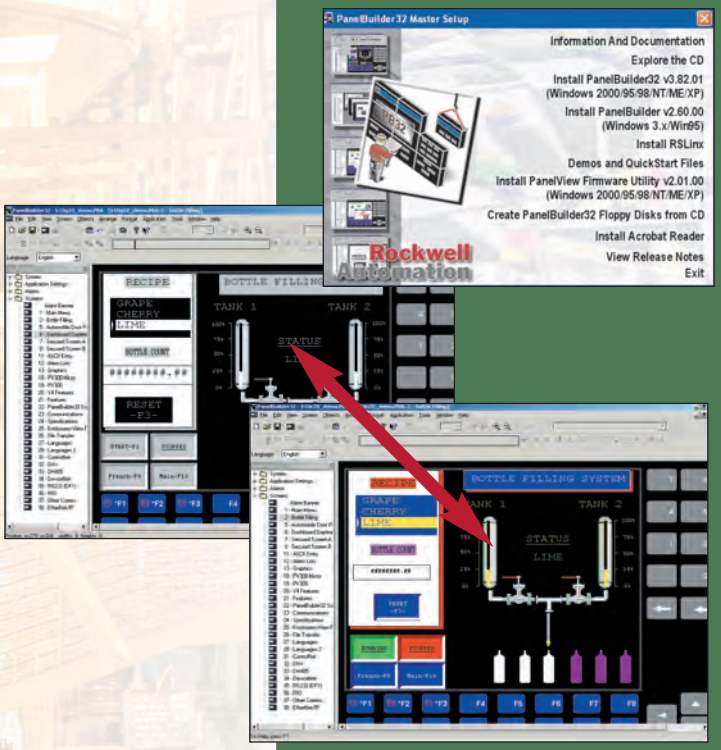
Advanced alarming. Screen security. Local language support. These are just some of the functions you can achieve with PanelView Standard products. And thanks to PanelBuilder™32 software, high-performance functionality is quick and easy to configure.

With PanelBuilder32 software, you have a full library of operator devices at your disposal. You can create alarm messages for instant notification, keep multiple application files open at the same time and use Microsoft® tools to create, sort and organize your control tags.

Since PanelBuider32 software supports the entire PanelView Standard family, applications easily migrate between terminals. Plus open, reuse and save your legacy PanelView Standard applications – extending the value of your PanelView Standard investments.

PanelBuilder32 software is compatible with a wide range of control systems. When you add PanelView Standard applications to your Rockwell Automation Integrated Architecture™ system, you are assured additional benefits:

- Extensive ControlLogix® support
- Import/export capability for the RSLogix™ programming software family
- Remote device configuration for application file upload/download over networks using RSLinx® Classic and ControlLogix Gateway



PanelBuilder32 applications easily migrate between terminals.

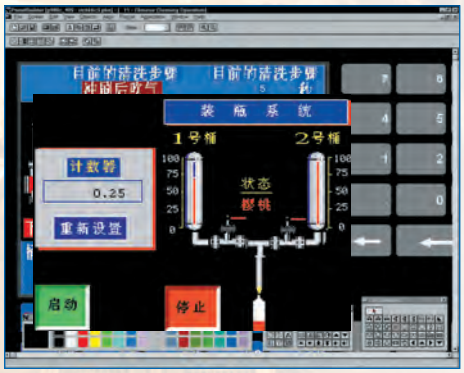
High Performance Functions



Advanced Alarm Capabilities

Alarm lists record and display important alarm data.

Alarm banner alerts operators to fault conditions.



Screen security helps safeguard your applications.

Local Language Support

Now you can develop your PanelBuilder32 applications in more than 45 languages, including Chinese. The software also supports up to five languages in a single application.

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Standard Network Connections – Runtime Operation

Network Connection	MicroLogix	SLC-500, 5/01, 5/02	5/03	5/04	5/05	PLC-5	ControlLogix	CompactLogix
Remote I/O	no	5/02 with 1747-SN	with 1747-SN	with 1747-SN	with 1747-SN	yes	with 1756-DHRIO****	no
DH+	no	no	no	yes	no	yes	with 1756-DHRIO****	no
DF1	yes	with 1747-KE	Ch. 0	Ch. 0	Ch. 0	Ch. 0	Ch. 0	Ch. 0
DH-485 (RS485 physical connection)	with AIC+	yes	yes	with AIC+ to Ch. 0	with AIC+ to Ch. 0	no	with AIC + to 1756-DH485 or Ch.0	with AIC + to Ch. 0
DH-485 (RS-232 physical connection)	with AIC+*	with AIC+	Ch. 0	Ch. 0	Ch. 0	no	with 1756-DH485 or Ch.0	Ch. 0
DeviceNet	with 1761- NET DNI**	5/02 with 1747-SDN	with 1747-SDN	with 1747-SDN	with 1747-SDN	with 1771-SDN	with 1756-DNB	with 1769-SDN
ControlNet	no	no	with 1747-KFC15	with 1747-KFC15	with 1747-KFC15	PLC-5C	with 1756-CNB*****	with 1769-L32C or 1769-L35CR
EtherNet/IP	with 1761-NET-ENI***	no	with 1761-NET-ENI	with 1761-NET-ENI	yes	with PLC-5E or 1785-ENET	with 1756-ENBT or 1756-EN2T	with 1769-L32E or 1769-L35E

* For isolation purposes if not on the same power supply
** For MicroLogix 1500: with 1761-NETDNI (slave) or 1769-SDN (DeviceNet Scanner)
*** For MicroLogix 1100: yes (standard embedded)
**** Legacy mode. Example: address = N7:0
***** Symbolic (CIP) addressing. Example: address = tank level

PanelView Standard Network Connections

Because PanelView Standard terminals offer such flexible communication options, you can optimize your operator interface needs to your control or process architecture. Or, as your control system needs change, so can your operator interface system.

Along with flexible network connections for runtime operation, you have multiple options for uploading and downloading application files with PanelBuilder32 – direct, over the network or via a "Pass-through" or "Gateway" connection. And don't forget ATA memory cards for easy file transfers.

PanelView Standard Application File Upload/Download Direct & Network Connections

PanelView Type	Direct Connection PC (with PanelBuilder32) to PanelView	Network Connection PC (with PanelBuilder32) over Network
EtherNet/IP	2711-NC13 (via RS-232 printer port)	Yes – via Ethernet Port
DeviceNet	2711-NC13 (via RS-232 printer port)	Yes – via PV DeviceNet port
ControlNet	2711-NC13 (via RS-232 printer port)	Yes – via PV ControlNet port
Data Highway Plus	2711-NC13 (via RS-232 printer port)	Yes – via PV DH+ port
Remote I/O	2711-NC13 (via RS-232 printer port)	N/A – use a Pass-through connection
DH-485 (RS-485 port)	1747-UIC	Yes – via PV DH-485 port
DH-485 (RS-232 port)	2711-NC13 (via RS-232/DH-485 port) or PV 300 Micro: 2711-CBL-PM05 or -PM10 or 1747-UIC	Yes – via PV RS-232 (DH-485) port (select terminals only)
DF1	2711-NC13 (via RS-232 port) or 2711-NC13 (via RS-232 printer port – select terminals only) PV300 Micro: 2711-CBL-PM05 or -PM10	N/A – use a Pass-through connection

* When connecting a personal computer to a PanelView Standard terminal, using a PIC without a controller connected, you need a power supply (1747-NP1).

PanelView Standard Application File Upload/Download Pass-Through & Gateway Connections

PC Network (PC to Controller)	Controller*/Gateway	PanelView Network (Controller to PanelView)
EtherNet/IP	ControlLogix/Gateway	ControlNet, DeviceNet, Remote I/O, DH+, DH-485
	PLC-5	DeviceNet, Remote I/O
	SLC 5/05	DeviceNet, Remote I/O, DH-485, DF1
ControlNet	ControlLogix/Gateway	DeviceNet, Remote I/O, DH+, DH-485
	PLC-5	DeviceNet, Remote I/O
DH+	PLC-5	DeviceNet, Remote I/O
	SLC 5/04	DeviceNet, Remote I/O, DH-485, DF1
DH-485	SLC 5/03, 5/04 , 5/05	DeviceNet, Remote I/O
	SLC 5/04	DH+
DF1	ControlLogix/Gateway	ControlNet, DeviceNet, Remote I/O
	SLC 5/03, 5/04 , 5/05	DeviceNet, Remote I/O
	SLC 5/04	DH+

* The controller must support PC network as well as PanelView network. Consult controller manual for details.

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PanelView Standard Specifications

	PanelView 300 Micro	PanelView 300	PanelView 550	PanelView 550T
				
DISPLAY				
Type	Monochrome Transflective LCD with Integral LED Backlight		Monochrome LCD Blue Mode Display	
Size:	2.87" x 1.67" (73 mm x 42 mm)		4.75" x 2.38" (120 mm x 60 mm)	
Replaceable Backlight	N/A – 100,000 hour LED backlight life			
Operator Input	Keypad	Keypad	Keypad or Combination Keypad and Touch Screen	Touch Screen Only
Touch Cells	N/A	N/A	128	128
Function Keys	4 (F1 - F4) 4 Nav/Function Keys	8 (F1 - F8)	10 (F1 - F10)	N/A
Real-time Clock	Battery-backed clock timestamps critical data			
Application Memory	170K application runtime; 240K Flash (application objects + text + bitmaps)			
ATA Memory Card	N/A	Supported		
ELECTRICAL				
Communication Port	RS-232 (DH-485 protocol), DF1, 8-pin Mini DIN connector	DeviceNet, DH-485, RS-232 (DH-485 protocol), DF1	EtherNet/IP, DeviceNet, ControlNet, DH+, Remote I/O, DH-485, RS-232 (DH-485 protocol), DF1	
RS-232 Printer Port	N/A	1200, 2400, 9600, 19200 baud rate[1]		
Power Requirements	AC: N/A DC: 11-30V DC	AC: N/A DC: 18-32V DC	AC: 85-264V AC DC: 47-63 Hz 18-30V DC	AC: N/A DC: 18-32V DC
Power Consumption	AC: N/A DC: 2.5 Watts max. (0.105A@24V DC)	AC: N/A DC: 10 Watts max. (0.42A@24V DC)	AC: 45 VA max. DC: 18 Watts max. (0.75A@24V DC)	AC: N/A DC: 18 Watts max. (0.75A@24V DC)
Programming	PanelBuilder32 (Windows®-based)			
ENVIRONMENTAL				
Operating Temperature	0 – 55°C (32 – 131°F)			
Storage Temperature	-20 – 85°C (-4 – 188°F)	-25 – 85°C (-13 – 158°F)	-20 – 70°C (-4 – 158°F)	
Humidity	5 – 95%, noncondensing @ 0 – 55°C	5 – 95%, noncondensing @ 0 – 30°C		
Ratings	NEMA Type 12, 13, 4x (indoor only), IP54, IP65			
Certifications	cUL certified; UL listed; Class 1, Div 2, Groups A, B, C, D; Class 1 Zone 2; Class 2, Div 2, Groups F, G; Class 3, Div 1; CE Mark; C-Tick			
WEIGHT				
Keypad	10 oz (284 g)	1.484 lbs (673 g)	2.7 lbs (1.2 kg)	N/A
Touch Screen	N/A	N/A	2.7 lbs (1.2 kg)	2.1 lbs (0.93 kg)
DIMENSIONS				
Keypad (H x W x D)	5.23" x 4.38" x 1.87" (133 x 112 x 48 mm)	7.76" x 5.51" x 3.21" (197 x 140 x 82 mm)	6.57" x 10.47" x 4.17" (167 x 266 x 106 mm)	N/A
Touch Screen (H x W x D)	N/A	N/A	6.57" x 10.47" x 4.17" (167 x 266 x 106 mm)	6.0" x 7.28" x 3.2" (152 x 185 x 82 mm)

[1] PanelView 300 Printer Port or DeviceNet option only.

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	PanelView 600	PanelView 600T	PanelView 1000 Color	PanelView 1000 Grayscale
				
	Color Active Matrix Thin Film Transistor (TFT)			Black/White Monochrome
	4.54" x 3.4" (115 mm x 86 mm)	4.54" x 3.43" (115 mm x 87 mm)	8.3" x 6.2" (211 mm x 158 mm)	
	Field replaceable	N/A	Field replaceable	Field replaceable for Series C and later
	Keypad or Combination Keypad and Touch Screen	Touch Screen Only	Keypad or Touch Screen	
	128		384	
	10 (F1 - F10)	N/A	16 (F1 - F16)	
	Battery-backed clock timestamps critical data			
	190K application runtime; 240K Flash	190K application runtime; 240K Flash (application objects + text + bitmaps)	310K application runtime; 1008K Flash (application objects + text + bitmaps)	
	Supported			
	EtherNet/IP, DeviceNet, ControlNet, DH+, Remote I/O, DH-485, RS-232 (DH-485 protocol), DF1			
	1200, 2400, 9600, 19200 baud rate			
	AC: 85-264V AC DC: 18-32V DC 47-63 Hz	AC: N/A DC: 18-32V DC	AC: 85-264V AC DC: 18-32V DC 47-63 Hz	AC: 85-264V AC DC: 18-32V DC 47-63 Hz
	AC: 60 VA max. DC: 34 Watts max. (1.9A@24V DC)	AC: N/A DC: 24 Watts max. (1.0A@24V DC)	AC: 55 VA max. DC: 27 Watts max. (2A@24V DC)	AC: 55 VA max. DC: 40 Watts max. (1.74A@24V DC)
	PanelBuilder32 (Windows-based)			
	0 – 55°C (32 – 131°F)	0 – 50°C (32 – 122°F)	0 – 55°C (32 – 131°F)	
	-25 – 70°C (-13 – 158°F)			
	5 – 95%, noncondensing @ 0 – 55°C	5 – 95%, noncondensing @ 0 – 40°C	5 – 95%, noncondensing @ 0 – 55°C	
	NEMA Type 12, 13, 4x (indoor only), IP54, IP65			
	cUL certified; UL listed; Class 1, Div 2, Groups A, B, C, D; Class 1 Zone 2; Class 2, Div 2; Class 3, Div 1; CE Mark; C-Tick			
	4.4 lbs (2 kg)	N/A	6.7 lbs (3.06 kg)	6.7 lbs (3.06 kg)
	4.4 lbs (2 kg)	2.3 lbs (1 kg)	6.6 lbs (3.00 kg)	6.6 lbs (3.00 kg)
	7.55" x 11.40" x 4.57" (192 x 290 x 116 mm)	N/A	11.1" x 16.6" x 4.4" (282 x 423 x 112 mm)	
	7.55" x 11.40" x 4.57" (192 x 290 x 116 mm)	6.00" x 7.28" x 3.80" (152 x 185 x 96 mm)	11.1" x 14.6" x 4.4" (282 x 370 x 112 mm)	

For most up-to-date specification information, visit
www.ab.com/eoi/graphicterminals/panelview_standard.html

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VISIT THE PANELVIEW STANDARD WEBSITE:

www.ab.com/eoi/graphicterminals/panelview_standard.html

The PanelView Standard website is your source for current product specifications and information regarding accessories and replacement parts.

SUPPORT RESOURCES:

For set-up or technical assistance, contact Rockwell Automation Technical Support at:

1-440-646-5800

For general customer support, contact your local Allen-Bradley distributor or Rockwell Automation representative.

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