Technical Data



PanelView 800 Terminals

Catalog Numbers 2711R-T4T, 2711R-T7T, 2711R-T10T







PanelView 800 Family

The PanelView™ 800 family consists of panel-mount display devices that offer keypad or touch-screen options for operator input. These graphic terminals are available in 4...10 in. display sizes. They include 800 MHz CPU processors, highresolution displays with LED backlights, and high flash memory and dynamic memory. The built-in Ethernet and serial communication ports support a variety of networks.

PanelView 800 terminals are optimized for compatibility with Micro800° and MicroLogix™ controllers. Additional features include:

- High-resolution display with LED backlight with 65K colors
- Flexible application modes in landscape and portrait orientations •
- High performance 800 MHz CPU processor with 128MB/256MB memory
- Alarm messages that include embedded variables
- Upload/download capability for groups of data or parameter settings with recipe capability

sales of octors Typical applications for PanelView terminals include:

- Adhesive labelers
- Air handling units
- Material handling machines
- Stretch wrap machines

Environmental Specifications

Table 1 - Environmental Specifications - PanelView 800 Terminals

Attribute	2711R-T4T, 2711R-T7T, 2711R-T10T	
Temperature, operating	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): 050 °C (32122 °F)	
Temperature, nonoperating	IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): -2570 °C (-13158 °F)	m
Temperature, surrounding air, max	50 °C (122 °F)	
Heat dissipation 2711R-T4T 2711R-T7T 2711R-T10T	23 BTU/hr 34 BTU/hr 61 BTU/hr	· ·
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 595% noncondensing	
Vibration	IEC 60068-2-6 (Test Fc, Operating): 2 g @ 10500 Hz	
Shock, operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 15 g	
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g	
Emissions	IEC 61000-6-4	
ESD immunity	IEC 61000-4-2: 4 kV contact discharges 8 kV air discharges	
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 xHz sine-v.ave 80% AM from 802000 MHz 10V/m with 200 Jz 10% Pulse 100% AM @ 900 MHz 10V/r. with 2 00 Hz 50% Pulse 100% AM @ 1890 MHz 0V/ n with 1 kHz sine-wave 80% AM from 20002700 MHz	
EFT/B immunity	IEC C1000-4-4: +2 kV @ 5 kHz on power ports +1 kV @ 5 kHz on communication ports	
Surge transient immur.	IEC 61000-4-5: ±500V line-line(DM) and ±500V line-earth(CM) on DC power ports ±1 kV line-earth(CM) on communication ports	
Conducted RF immunity	IEC 61000-4-6: 10V rms with 1 kHz sine-wave 80% AM from 150 kHz80 MHz	

General Specifications

Attribute	2711R-T4T, 2711R-T7T, 2711R-T10T	
Wire size	Input Power Terminal Block	
	Stranded or solid, Cu 90 °C (194 °F)	
	Single-Wire Gauge: 0.332.08 mm2 (2214 AWG)	
	Dual-wire Gauge: 0.331.31 mm2 (2216 AWG)	
Wire type	Copper	
Wiring category ⁽¹⁾	3 – on power ports	
	2 – on communication ports	
Enclosure type ratings	Meets NEMA/UL Type 4X (indoor) 12, 13, and IP65	
North American temperature code	T4A	Cì

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Table 2 - General Specifications - PanelView 800 Terminals

(1) Use this conductor category information to plan for conductor routing. See Industrial Automation Wiring and Ground Guidelines, publication 1770-4.1.

Certifications

Table 3 - Certifications - PanelView 800 Terminals

Certification ⁽¹⁾	2711R-T4T, 2711R-T7T, 2711R-T10T
CE	European Union 2004/108/EC EMC Directive, compliant with: EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions
China RoHS	SJ/T 11364-2014, GB/T 26572-2011, SJ/Z 11388-2009
cULus	UL Listed Industrial Control Equipment, certified or US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C Շ па. это сосаtions, certified for U.S. and Canada. See UL File E334470.
КС	Korean Registration of Broa casting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act Clause 3
RCM	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 1 (; in fust in c missions

Technical Specifications

<u>Table 4</u> provides technical specifications for the PanelView 800 terminals.







Table 4 - Technical Specifications - PanelView 800 Terminals

Attribute	2711R-T4T	2711R-T7T	2711R-T10T	
Display type	Color transmissive TFT active matrix LCD, wid	lescreen format		
Display size	4 in.	7 in.	10 in.	
Display area (WxH)	95 x 53.9 mm (3.74 x 2.12 in.)	153.6 x 86.6 mm (6.05 x 3.41 in.)	211.2 x 158.4 mm (8.31 x 6.24 in.)	
Resolution (pixels)	480 x 272	800 x 480	8() x 600	
Backlight	LED			
Backlight lifespan, min	40,000 hours	×		
Colors	65K colors	X	,	
Operator input	Analog touch and function keys	Analog touch		
Memory card	USB port and micro-SD (Secure Digital) card formats, up to 32 GB maximum size.	– Industrial grade micro-SD cards 1. romm .nded. Suppo	orts SDSC and Class 6 & Class 10 SDHC micro-SD cards, FAT32/16	
Real-time clock with battery	Yes			
Battery lifespan, min	5 years @ 25 °C (77 °F)	0.		
Programming port	Ethernet port			
Recipe	50 recipe files			
Software	Connected Components Workbench softwar release 8.0 and later			
Preferred controller	Micro800, MicroLogix			
Power Supply	24V DC			
Processor, CPU speed	800 MHz CPU			
Flash Memory (ROM) min	128 MB	256 MB		
SDRAM (RAM) min	128 МВ Г ЈК	256 MB DDR		
Operating System	V. YCE 6.0			
Power Consumption (max)	9 W (0., ` A @ 24V DC)	11 W (0.40 A @ 24V DC)	14 W (0.48 A @ 24V DC)	
RS232/RS422/485 (isolated)	Separate RS-232 and RS422/RS485 connected	ors		
Ethernet 10/100 Mbps	1			
USB Host (USDB 2.0)	Yes			
MicroSD slot	Yes			
nput voltage range	1832V DC (24V DC nom)			
Weight, approx	0.333 kg (0.73 lb)	0.651 kg (1.44 lb)	1.64 kg (3.62 lb)	
Dimensions (HxWxD), approx	116 x 138 x 43 mm 4.6 x 5.4 x 1.7 in.	144 x 197 x 54 mm 5.7 x 7.8 x 2.1 in.	225 x 287 x 55 mm 8.9 x 11.3 x 2.2 in.	
Panel Cutout dimensions (HxW)	99 x 119 mm 3.9 x 4.7 in.	125 x 179 mm 4.9 x 7.1 in.	206 x 269 mm 8.1 x 10.6 in.	
Front Bezel Protection	IP65, NEMA 4X, 12, 13	I	L	

Product Dimensions

Figure 1...Figure 3 (along with Table 5) illustrate the dimensions of the PanelView 800 Terminals.

Figure 1 - PanelView 800 4-inch Terminals

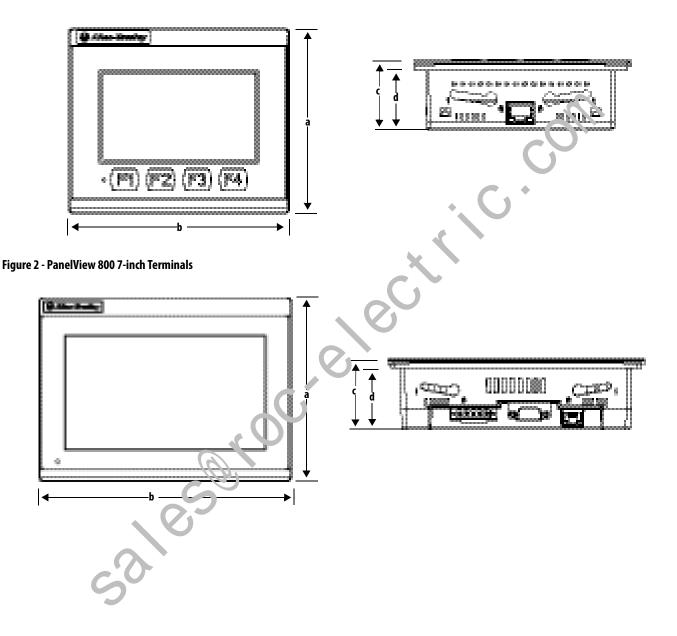


Figure 3 - PanelView 800 10-inch Terminals

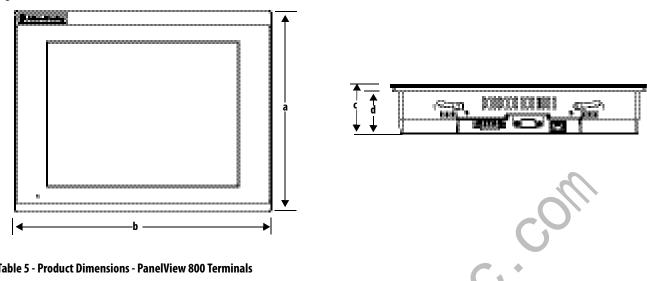


Table 5 - Product Dimensions - PanelView 800 Terminals

PanelView 800 Terminal	Operator Input	Height (a) mm (in.)	Width (b) mm (in.)	Depth Overall (c) mm (in.)	Mounte 'Deptn () mr .(in.)	Cutout Height, approx	Cutout Width approx
4 in.	Touch screen and function keys	116 (4.6)	138 (5.4)	43 (1.7)	, 39 (1.5)	99 (3.9)	119 (4.7)
7 in.	Touch screen	144 (5.7)	197 (7.8)	54 (2.1)	50 (1.9)	125 (4.9)	179 (7.1)
10 in.	Touch screen	225 (8.9)	287 (11.3)	55 (2.2)	51 (2.0)	206 (8.1)	269 (10.6)

Accessories

Table 6...<u>Table 9</u> list the accessories for the PanelView 300 terminals.

Table 6 - Adapter Plate Kit

Cat. No.	Description	Quantity
2711R-APK7	PanelView 800 Adapter Plate Kit for 7 Inch Terminal	1
2711R-APK10	PanelView 800 Adapterate K . for 10-Inch Terminal	1

Table 7 - Stylus Pen

Cat. No.	Des rip',u	Quantity
2711R-CSP	Par "View 800 Stylus Pen	5

Table 8 - Terminal Blocks

Cat. No.	Description	Quantity
2711C-RJ422	5-pin connector for RS-422/485	10

Table 9 - Power Supply

Cat. No.	Description	Quantity
2711P-RSACDIN	DIN-rail mount AC-to-DC power supply, 85265V AC, 4763 Hz	1

Software

PanelView 800 terminals are part of the Connected Components solution where the entire component family uses a single software–Connected Components Workbench[™] software–for controller programming, device configuration, and data sharing. To use the Connected Components Workbench software effectively, your computer must meet the hardware requirements shown in <u>Table 10</u>.

Component	Minimum System Requirements	Recommended System Requirements
Processor	Intel Pentium 4 2.8 GHz or equivalent	Intel Core i5 2.4 GHz or equivalent
RAM Memory	2 GB	8 GB or more
Hard Disk Space	10 GB free	10 GB free or more
Optical Drive	DVD-ROM	DVD-ROM
Pointing Device	Any Microsoft Windows-compatible pointing device	Any Microsoft Windows compatible pointing device

Connected Components Workbench is supported on the following operating systems:

- Microsoft Windows[®] 7 (32-bit and 64-bit)
- Microsoft Windows[®] 8 and 8.1 (32 bit and 64 bit)

Note: Not recommended for use with the Micro810 due to USB A ¹apter driver. The driver will be updated in Relese 8.

• Microsoft Windows 2008[°] (R2)

Additionally, Internet Explorer, which is installed with the operation system, is required to view the Connected Components Workbench help.

Cables

Use these cables for connecting PanelVic v 800 terminals.

Table 11 - Cables for PanelView 800 Terninals

Cat. No.	Description
2711P-CBL-EX04	Ethornet crusover CAT5 cable 4.3 m (14 ft)
1747-CP3	Se (al 9-pin D-shell to 9-pin D-shell null modem cable, 3 m (10 ft)
1761-CBL-PM02	5 rial 9-pin D-shell to 8-pin mini DIN cable, 2 m (6.5 ft)
2711C-CBL-AB03	RS-485 5-pin to RJ45 cable
1763-NC01 series A	8-pin Mini DIN to 6-pin RS-485 terminal block

This table provides a summary of connections to Micro800 controllers.

Table 12 - Protocol

Protocol	PanelView 800 Port	Micro820	Micro830	Micro850	Micro800 Plug-in Module (2080-SERIALISOL)
Modbus (RTU) (HD)	RS-232	_(2)	1761-CBL-PM02	1761-CBL-PM02	_(2)
	RS-485 ⁽¹⁾	_(2)	_(2)	_(2)	_(2)
Modbus unsolicited (HD)	RS-232	_(2)	1761-CBL-PM02	1761-CBL-PM02	_(2)
	RS-485 ⁽¹⁾	_(2)	_(2)	_(2)	_(2)
Ethernet (AB CIP)	Ethernet	2711P-CBL-EX04 (CAT5 Ethernet)	N/A ⁽³⁾	2711P-CBL-EX04 (CAT5 Ethernet)	N/A ⁽³⁾
Modbus TCP	Ethernet	2711P-CBL-EX04 (CAT5 Ethernet)	N/A ⁽³⁾	2711P-CBL-EX04 (CAT5 Ethernet)	ιΑ. ⁻²¹
Serial (AB CIP)	RS-232	_(2)	1761-CBL-PM02	1761-CBL-PM02	-(2)
	commended for connecting to or	nly one device with an isolated port		<u> </u>	
 This connectivity is not available 		¢			
Гhis table provides	a summary of conr	nections to MicroLog	ix controllers. 💊		
able 13 - Protocol		·			

This table provides a summary of connections to MicroLogix controllers.

Table 13 - Protocol

Protocol	PanelView 800 Port	MicroLogix (8-pin Mini DIN) 1000, 1100, 1400, 1200LSP, 1500LSP (Ch 0)	Micro' - J'Y (, nir D shell, 15 JOL 7P (Ch 1)	MicroLogix 1100/1400 RS-485 (1763-NCO1)	MicroLogix 1100, 1400 Ethernet
DF1	RS-232	1761-CBL-PM02	_ 1747- ⊾ P3	-	-
DH-485	RS-232	1761-CBL-PM02		Use AIC+ module (1761-NET-AIC) connect to port 3	-
	RS-485 ⁽¹⁾	-0	-	Belden 3106A or #9842 or equivalent	-
Modbus	RS-232	1761 CBL-PM02	1747-CP3	Use AIC+ module (1761-NET-AIC) connect to port 3	-
Ethernet (MicroLogix/ENI)2	Ethernet	-	-	-	2711P-CBL-EX04 (CAT 5 Ethernet)

(1) RS-485 is isolated and is reco⁻ ime ⁻¹ed for connecting to only one device with an isolated port.

More Information

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

Resource	Description		
PanelView 800 HMI Terminals Installation Instructions, publication 2711R-IN001	Provides information on how to install and configure PanelView 800 terminals.		
PanelView 800 Product Profile, publication 2711R-PP001	Provides a product description and information about product features and benefits.		
PanelView 800 HMI Terminals User Manual, publication 2711R-UM001	Provides information on how to install, operate, configure, and troubleshoot PanelView 800 terminals.		
Industrial Automation Wiring and Grounding Guidelines, publication <u>1770-4.1</u>	Provides general guidelines on how to install a Rockwell Automation industrial system.		
Product Certifications website, <u>http://www.ab.com</u>	Provides declarations of conformity, certificates, and other certification details.		

You can view or download publications at <u>http://www.rockwellautomation.com/literature/</u>. To orde: paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

sales

Rockwell Automation Publication 2711R-TD001A-EN-P - March 2015

Notes:

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Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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