

PanelView Standard Terminal Specifications

Catalog Numbers 2711



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PanelView Standard Terminals

The PanelView Standard terminals feature pixel graphics capabilities and functionality in color, grayscale, and monochrome displays. These rugged electronic operator interface solutions are available in a variety of sizes and configurations to meet specific application requirements. All use common development software to simplify programming and improve operator productivity.

These terminals communicate with PLC and SLC controllers over EtherNet/IP, DeviceNet, ControlNet, DH-485, DH+, and remote I/O networks, or by using serial communication.

Other features supported by the PanelView Standard line include advanced alarm handling, screen security, analog gauges, ATA memory card, universal language support, and online printing for more intuitive operator control.

Environmental Specifications

This table lists the environmental specifications for the family of PanelView Standard terminals.

Table 1 - Environmental Specifications- PanelView Standard Terminals

Attribute	2711 PanelView Standard 300, 300 Micro, 550, 1000
Temperature, operating	0...55 °C (32...131 °F) 600 color: 0...50 °C (32...122 °F)
Temperature, storage	
550	-20...70 °C (-4...158 °F)
300 Micro	-20...85 °C (-4...185 °F)
300, 600, 1000	-25...70 °C (-13...158 °F)
Heat dissipation	
300 Micro	2.5 W (8.5 BTU/hr)
300	6 W (13 BTU/hr)
550	20 W (69 BTU/hr)
600 keypad	32 W (107 BTU/hr)
600 touch	17 W (577 BTU/hr)
1000	39 W (132 BTU/hr)
Relative humidity	
300 Micro, 600 keypad, 1000	5...95% noncondensing at 0...55 °C (32...131 °F)
300, 550	5...95% noncondensing at 0...30 °C (32...86 °F)
600 touch	5...95% noncondensing at 0...40 °C (32...104 °F)
Vibration operating	2 g up to 2000 Hz
Altitude, operating	2000 m (6561 ft)
Shock, operating/nonoperating	
300 Micro, 550,	30 g/50 g
300, 600, 1000	15 g/30 g
Enclosure ratings	NEMA Type 12, 13, 4X (indoor use only), IEC IP54, IP65
Airborne contaminants	ANSI/ISA S71.04 - 1985 Severity Level G3
300 conformal-coated only	EN60654-4: 1998 Class 3

Certifications

This table lists the certifications for the family of PanelView Standard terminals.

Table 2 - Certifications - PanelView Standard Terminals

Certification ⁽¹⁾	300 Micro	300	550	600	1000
Emissions (Class A: Industrial EN50081-2:1993)	•	•	•	•	•
Immunity (Industrial) EN61000-6-2:1999	•	• (2)	•	•	•
Immunity (Industrial) EN50082-212:1995 ⁽³⁾	•	•	•	•	•
Programmable Controllers Equipment Requirements and Tests EN61131-2:1995		•	•	•	•
Low Voltage Directive (Safety Sections of EN61131-1)			•	• (4)	•
UL508	•	•	•	•	•
UL1604 Class 1, Div 2, Groups A, B, C, D, T4	•	•	• (5) (6)	•	•
UL2279 (IEC79-15) Class 1, Zone 2, Groups IIC, T4				•	•
CSA 22.2, No. 142	•	•	•	•	•
CSA 22.2, No. 213 Class 1, Div 2, Groups A, B, C, D, T4	•	• (5) (6)	•	•	•
EU Batteries Directive, 2006/66/EC	•	•	•	•	•

(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

(2) Meets standard as of April 2002.

(3) Standard applies to products manufactured prior to April 2002.

(4) Does not apply to 600 touch-screen only terminals.

(5) 550 (series H or later) or 550 touch-screen only (series B or later).

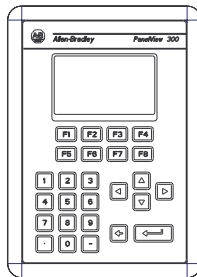
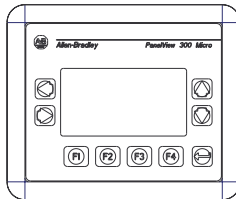
(6) 550 (series G or earlier) and 550 touch-screen (series A) have a temperature code rating of T2.

Technical Specifications

Tables 3...6 summarize the technical specifications for PanelView Standard terminals.

PanelView Standard 300 Micro and 300 Terminals

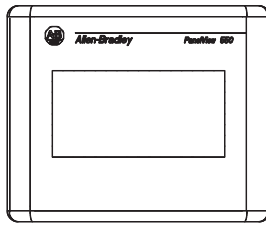
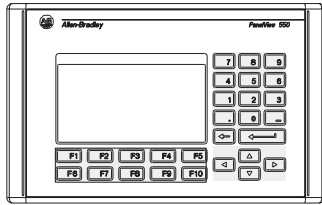
Table 3 - Technical Specifications - PanelView Standard 300 Micro/300 Terminals



Attribute	PanelView 300 Micro 2711-M3A18L1, 2711-M3A19L1	PanelView 300 2711-K3A2L1, 2711-K3A5L1, 2711-K3A5L1K, 2711-K3A10L1, 2711-K3A17L1
Operator input	Keypad	Keypad
Display type	Monochrome transfective LCD with LED backlight	
Display area (WxH)	73 x 42 mm (2.87 x 1.67 in.)	
Resolution	128 x 64	
Backlight	100,000 hr LED backlight life	
Touch screen	—	—
Keypad description	Stainless steel domed membrane Navigation, function keys Actuation: 2 million presses	
Keypad function keys	4 function keys (F1...F4)	8 function keys (F1...F8)
Real-time clock	Battery-backed clock timestamps critical data	
Battery	Not replaceable	
Application memory	170 KB application runtime 240 KB nonvolatile memory (application objects plus text and bitmaps)	
ATA memory card	Not supported	Supported
Software	PanelBuilder32 software, runs on a personal computer	
Communication ports	RS-232 (DH-485) RS-232 (DF1)	DeviceNet DH-485 RS-232 (DH-485) RS-232 (DF1)
RS-232 printer port	—	1200, 2400, 9600, 19,200 Kbps
Input voltage, DC	11...30V DC (24V DC nom)	18...32V DC (24V DC nom)
Power consumption, DC	25 W max (0.105 A at 24V DC)	10 W max (0.42 A at 24V DC)
Input voltage, AC	—	—
Power consumption, AC	—	—
Weight, approx.	284 g (10 oz.)	673 g (1.48 lb)
Dimensions (HxWxD), approx.	133 x 111 x 48 mm 5.23 x 4.38 x 1.87 in.	197 x 140 x 82 mm 7.76 x 5.53 x 3.21 in.

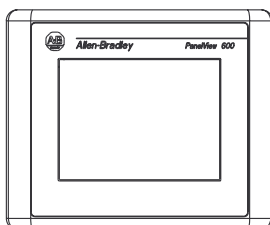
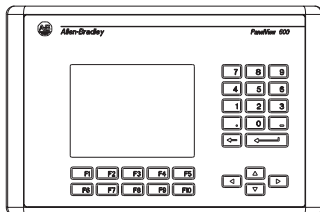
PanelView Standard 550 Terminals

Table 4 - Technical Specifications - PanelView Standard 550 Terminals



Attribute	PanelView 550 2711-K5A, 2711-B5A	PanelView 550 2711-T5A
Operator input	Keypad or key/touch	Touch screen
Display type	Monochrome LCD blue mode display	
Display area (WxH)	120 x 60 mm (4.75 x 2.38 in.)	
Resolution	256 x 128	
Backlight	100,000 hr LED backlight life	
Touch screen	Touch cells: 128 Actuation: 1 million presses	
Keypad description	Stainless-steel domed membrane Keypad, navigation, function keys Actuation: 1 million presses	—
Keypad function keys	10 function keys (F1...F10)	—
Real-time clock	Battery-backed clock timestamps critical data	
Battery	Field replaceable	
Application memory	170 KB application runtime 240 KB nonvolatile RAM (application objects plus text and bitmaps)	
ATA memory card	Supported	
Software	PanelBuilder32 software, runs on a personal computer	
Communication ports	EtherNet/IP, DeviceNet, ControlNet, DH+, Remote I/O, DH-485, RS-232 (DH-485), RS-232 (DF1)	
RS-232 printer port	1200, 2400, 9600, 19,200 Kbps	
Input voltage, DC	18...30V DC (24V DC nom)	18...32V DC (24V DC nom)
Power consumption, DC	18 W max (0.75 A at 24V DC)	18 W max (0.75 A at 24V DC)
Input voltage, AC	85...264V AC, 47...63 Hz	—
Power consumption, AC	45VA max	—
Weight, approx.	1.2 kg (2.7 lb)	0.93 kg (2.1 lb)
Dimensions (HxWxD), approx.	167 x 266 x 106 mm 6.57 x 10.47 x 4.17 in.	152 x 185 x 82 mm 6.0 x 7.28 x 3.2 in.

PanelView Standard 600 Terminals

Table 5 - Technical Specifications - PanelView Standard 600 Terminals


Attribute	PanelView 600 Color 2711-K6C, 2711-B6C	PanelView 600 Color 2711-T6C
Operator input	Keypad or key/touch	Keypad
Display type	Color active matrix TFT	
Display area (WxH)	115 x 86 mm (4.54 x 3.4 in.)	115 x 87 mm (4.54 x 3.43 in.)
Resolution	320 x 234	320 x 240
Backlight	Field replaceable 50,000 hr 1/2 life at 25 °C (77 °F)	
Touch screen	Touch cells: 128 Actuation: 1 million presses	
Keypad description	Stainless steel domed membrane Keypad, navigation, function keys Actuation: 2 million presses	—
Keypad function keys	10 function keys (F1...F10)	
Real-time clock	Battery-backed clock timestamps critical data	
Battery	Field replaceable	—
Application memory	190 KB application runtime 240 KB nonvolatile memory (application objects plus text and bitmaps)	
ATA memory card	Not supported	Supported
Software	PanelBuilder32 software, runs on a personal computer	
Communication ports	EtherNet/IP, DeviceNet, ControlNet, DH+, Remote I/O, DH-485, RS-232 (DH-485), RS-232 (DF1)	
RS-232 printer port	1200, 2400, 9600, 19,200 Kbps	—
Input voltage, DC	18...32V DC (24V DC nom)	
Power consumption, DC	34 W max (1.9 A at 24V DC)	24 W max (1.0 A at 24V DC)
Input voltage, AC	85...264V AC, 47...63 Hz	
Power consumption, AC	60VA max	
Weight, approx.	2.0 kg (4.4 lb)	1.0 kg (2.3 lb)
Dimensions (HxWxD), approx.	192 x 290 x 116 mm 7.55 x 11.40 x 4.57 in.	152 x 185 x 96 mm 6.0 x 7.28 x 3.80 in.