

# Compact Product Suite

## Panel 800 5.1



Panel 800 5.1 is one of the fastest, most powerful operator panels on the market. Equipped with a high-performance Intel® XScale processor, 32 MB of Intel® StrataFlash and 64 MB RAM, the Panel 800 is designed to handle large volumes of data and graphics rapidly and efficiently. Additional compact flash slots enable users to expand memory for exceptionally demanding applications.



Panel 800 uses the Windows® CE.Net version operating system – a reliable and proven processing platform used in many industrial applications. File safety and data integrity are ensured by the Intel® Persistent Storage Manager, which gives rapid access to files and data and protects them from corruption even during power failures.



Specifications	
Display backlight	CCFL/LED backlight with dimming function
CPU	312 MHz or 416 MHz RISC CPU (Intel Xscale)
Memory, flash	32 MB (Intel StrataFlash)
Memory, RAM	64 MB
Flash memory for application	12 MB
Real time clock	YES
Power supply	+24 V DC (20-30 V DC)
Ambient temperature	0°C to +50°C, can be extended for limited periods
Relative humidity	5 – 85 % non-condensing
Housing material	Powder-coated aluminium
Front side material	Autotex F250 / F157 (keyboard)
Approval and enclosure	
EMC	EN 61000-2-6, EN 61000-6-4
UL	UL 508
Marine	DNV: Location classes: Temperature A, Humidity B, Vibration A, EMC B, Enclosure C (panel front only), CCS, ABS and GL (depending on model)
Conformity	CE marking
Front panel seal	IP 66 and NEMA 4X
Rear panel seal	IP 20
Operator temperature, horizontal mounting	0 ° to +40 °C, can be extended for limited periods
Peripherals	
Serial Ports	RS422/RS485, female, 25-pin D-Sub, RS232C, male, 9-pin D-Sub
Ethernet	Shielded RJ45 10/100 Mbit/sec
USB	Host type A (power consumption max. 500 mA), Device type B
Profibus	Expansion slot for Profibus DP
Remote access	Via standard internet browser (mirror function). You can also program remote via Ethernet.



# Function key

Specifications	PP820A	PP826A
		
Display size	127.0 x 33.8 mm	5.7"
Display type	Graphic monochrome	Graphic 64K colors, TFT
Resolution	240 x 64 pixels	320 x 240 pixels
Interaction type	Function key	Function key
LED	16 (2 color)	16 (2 color)
Power consumption (normal/max)	0.15 A / 0.35 A	0.3 A / 0.5 A
Front panel, W x H x D	202 x 187 x 57 mm	275 x 168 x 57 mm
Cut-out dimensions	166 x 149 mm	240 x 130 mm
Mounting depth	57 mm	58 mm
Weight	0.875 Kg	1.11 Kg

Specifications	PP836A	PP846A
		
Display size	6.5"	10.4"
Display type	Graphic 64K colors, TFT	Graphic 64K colors, TFT
Resolution	640 x 480 pixels	800 x 600 pixels
Interaction type	Function key	Function key
LED	16 (2 color)	20 (2 color)
Power consumption (normal/max)	0.4 A / 0.9 A	0.5 A / 1 A
Front panel, W x H x D	285 x 177 x 60 mm	382 x 252 x 60 mm
Cut-out dimensions	246 x 139 mm	343 x 208 mm
Mounting depth	55 mm	58 mm
Weight	1.3 Kg	2.3 Kg

# Touch screen

Specifications	PP815A	PP825A	PP835A
			
Display size	3.8"	5.7"	6.5"
Display type	Graphic 64K colors, TFT	Graphic 64K colors, TFT	Graphic 64K colors, TFT
Resolution	320 x 240 pixels	320 x 240 pixels	640 x 480 pixels
Interaction type	Resistive Touch	Resistive Touch	Resistive Touch
Power consumption (normal/max)	0.15 A / 0.35 A	0.25 A / 0.45 A	0.4 A / 0.9 A
Front panel, W x H x D	156 x 119 x 59 mm	201 x 152 x 57 mm	219 x 154 x 60 mm
Cut-out dimensions	139 x 105 mm	180 x 130 mm	189 x 138 mm
Mounting depth	57 mm	57 mm	55 mm
Weight	0.56 Kg	0.87 Kg	1.1 Kg

Specifications	PP845A	PP865A
		
Display size	10.4"	15"
Display type	Graphic 64K colors, TFT	Graphic 64K colors, TFT
Resolution	800 x 600 pixels	1024 x 768 pixels
Interaction type	Resistive Touch	Resistive Touch
Power consumption (normal/max)	0.5 A / 1 A	1.2 A / 1.7 A
Front panel, W x H x D	302 x 228 x 60 mm	398 x 304 x 60 mm
Cut-out dimensions	265 x 206 mm	356 x 279 mm
Mounting depth	58 mm	60 mm
Weight	2 Kg	3.7 Kg

# Contact us

[www.abb.com/compactproductsuite](http://www.abb.com/compactproductsuite)  
[www.abb.com/controlsystems](http://www.abb.com/controlsystems)

**Note:**

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2013 ABB  
All rights reserved

800xA is a registered or pending trademark of ABB.  
All rights to other trademarks reside with their respective owners.

3BSE0054968 en F