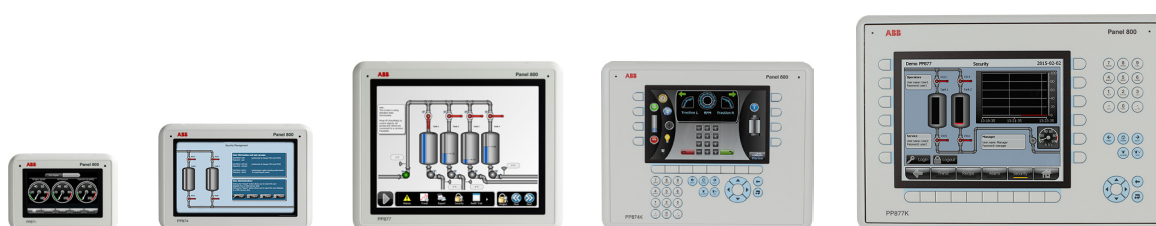


DATA SHEET

Panel 800 version 6

Panel 800 family comprises of user-friendly, intuitive and ergonomic operator panels that combine slim, space-saving dimensions with a comprehensive range of advanced functions. Designed to make process automation easy, all panels are equipped with advanced functionality for process and equipment control, maneuvered either by function keys located next to the screen or by touching the LCD display.



Standard panels

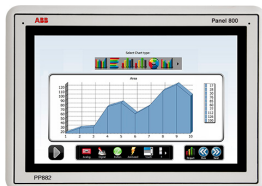
Panel	PP871	PP874	PP877	PP874K	PP877K
Article number	3BSE069270R2	3BSE069271R2	3BSE069272R2	3BSE069273R1	3BSE069274R1
Display size	4.3"	7"	10.4"	7"	10,4"
Display resolution, ratio	480 × 272 (16:9)	800 × 480 (16:9)	640 × 480 (4:3)	840 × 480 (16:9)	640 × 480 (4:3)
Display colors	TFT-LCD 64k LED backlight				
Brightness (cd/m ²)	350	350	450	350	450
View angle (H/V)	140° / 115°	140° / 130°	160° / 140°	140° / 130°	160° / 140°
Dimming	Yes				
Interaction type	Resistive touch, 1 million finger touch operations			Key, 1 million key press operations	
Processor	ARM9 (400 MHz)				
Main memory	128 MB (DDR2)				
Application memory	80 MB				
External storage media	1 × SD card slot (or SDHC with latest image loaded)				
Realtime clock	Yes				
Ethernet (shielded RJ 45)	1 × 10/100 Base-T				
USB	1 x USB 2.0, max. 200 mA				
Serial port 1/2	2 combined ports: 2 × RS232, 2 × RS422/485				
Dimension W×H×D (mm)	145 × 103 × 49	204 × 143 × 49	280 × 228 × 51		410 × 286 × 83
Cut-out dimension W×H (mm)	128 × 87	187 × 126	262 × 209		394 × 270
Mounting depth (mm) ⁽¹⁾	43 (143)		44 (144)		76 (176)
Mounting	Panel Mount and VESA 50 × 50	Panel Mount and VESA 75 × 75			
Net weight (kg)	0.5	0.8	1.5	1.7	3.8
Frame material, front foil	Powder-coated aluminum, Polyester Autotex EBA180L			Powder-coated aluminum, Polyester Autotex F150. Membrane switch keyboard with metal domes.	
Power supply	+24 VDC (18-32 VDC)				
Power consumption	3.6 W	6.0 W	9.6 W	6.0 W	9.6 W
Protection (front/rear)	IP66 / IP20	IP65 / IP20			
Operating temperature	-10 to +60 °C				
Relative operating humidity	5-85% non-condensing				
Storage temperature	-20 to +70 °C				
Vibration and shock	0.7 G / 10 G				
Environmental and Certification ⁽²⁾	CE, UL508 ⁽³⁾ , DNV ⁽³⁾			CE, UL, DNV	
	RoHS compliance: EN 50581:2012				
	WEEE compliance: DIRECTIVE/2012/19/EU				

(1) Including clearance.

(2) For detailed information on each module, please visit: www.800xahardwareselector.com www.compacthardwareselector.com

(3) For article numbers 3BSE069270R2, 3BSE069271R2 and 3BSE069272R2 or higher.

High performance panels



Panel	PP882	PP885
Article number	3BSE069275R1	3BSE069276R1
Display size	12.1"	15.4"
Display resolution, ratio	1280 x 800 (16:10)	
Display colors	TFT-LCD 262k LED backlight	
Brightness (cd/m ²)	400	450
View angle (H/V)	176° / 176°	160° / 140°
Dimming	Yes	
Interaction type	Resistive touch, 1 million finger touch operations	
Processor	Intel® Atom (1.1GHz)	
Main memory	1GB (DDR2)	
Application memory	>=1.4GB	
External storage media	1 x SD card slot (or SDHC with latest image loaded)	
Realtime clock	Yes	
Ethernet (shielded RJ 45)	2 built-in ports: 1 x 10/100/1000 Mbit/s, 1 x 100 Mbit/s	
USB	3 x USB 2.0, max. 500 mA	
Serial port 1/2	2 combined ports: 2 x RS232, 2 x RS422/485	
Dimension W×H×D (mm)	340 x 242 x 79	410 x 286 x 83
Cut-out dimension W×H (mm)	324 x 226	394 x 270
Mounting depth mm ^[1]	72 (172)	76 (176)
Mounting	Panel Mount and VESA 75 x 75	
Net weight (kg)	2.6	3.85
Frame material, front foil	Powder-coated aluminum, Polyester Autotex EBA180L	
Power supply	+24 VDC (18-32 VDC)	
Power consumption	22W	24W
Protection (front/rear)	IP65 / IP20	
Operating temperature	-10 to +50 °C	
Relative operating humidity	5-85% non-condensing	
Storage temperature	-20 to +70 °C	
Vibration and shock	0.7 G / 10 G	
Environmental and Certification ⁽¹⁾	CE	
	UL	UL 508
	RoHS compliance: EN 50581:2012	
	WEEE compliance: DIRECTIVE/2012/19/EU	

(1) For detailed information on each module, please visit:

www.800xahardwareselector.com
www.compacthardwareselector.com

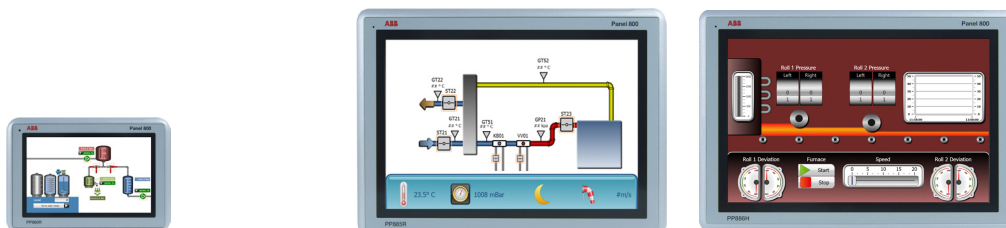
Black panels



Panel	PP874M	PP885M	PP885H
Article number	3BSE069279R1	3BSE069280R1	3BSE069281R1
Display size	7"	15.4"	15.4"
Display resolution, ratio	800 x 480 (16:9)	1280 x 800 (16:10)	
Display colors	TFT Color LCD, 64k LED backlight	TFT Color LCD with 16.7 million colors LED backlight	
Brightness (cd/m2)	500	450	1000
View angle (H/V)	140/120	160/140	160/140
Dimming	Maritime optimized to 0 cd/m2		
Interaction type	Resistive touch, 1 million finger touch operations	Resistive touch, 5 million finger touch operations	
Processor	ARM9 400MHz	1.0 GHz Intel® Atom™	
Main memory	128 MB	1 GB	
Application memory	80 MB (SSD)	3,5 GB (SLC)	
External storage media	1 x SD card slot (or SDHC with latest image loaded)		
Realtime clock	Yes		
Ethernet (shielded RJ 45)	1 x 10/100 Base-T	1 x 10/100 Base-T, 1 x 10/100/1000 Base-T	
USB	1 x USB 2.0, max. 200 mA	3 x USB Host 2.0, max 500mA	
Serial port	2 combined ports: 2 x RS232, 2 x RS422/485	1 x RS232, 1 x RS422/485 (isolated)	
Dimension W×H×D (mm)	204 x 143 x 52.2	410 x 286 x 83	
Cut-out dimension W×H(mm)	187 x 126	394 x 270	
Mounting depth mm ^[1]	43 (143)	76 (176)	
Mounting	Panel Mount and VESA 75 x 75		
Net weight (kg)	0.8	4.4	
Frame material, front foil	Black powder-coated aluminum, polyester Autoflex EBA 180L	Black powder-coated aluminum, polyester Autoflex EB	
Power supply	24 VDC (18-32 VDC)		
Power consumption	6.0 W	28 W	
Protection (front/rear)	IP65 / IP20	IP66 / IP20, NEMA-4X	
Operating temperature	-15 to +55 °C		
Relative operating humidity	5-85% non-condensing		
Storage temperature	-20 to +70 °C		
Vibration /shock	0.7 G / 10 G		
Environmental and Certification ⁽¹⁾	CE: EN61000-6-4, EN61000-6-2		
	UL/cUL 508	UL/cUL 61010-2-201 (replacement for UL 508)	
	DNV, GL, ABS, LR, KR	DNV, GL, ABS, LR	
	RoHS compliance: EN 50581:2012		
	WEEE compliance: DIRECTIVE/2012/19/EU		

(1) For detailed information on each module, please visit:
www.800xahardwareselector.com
www.compacthardwareselector.com

Rugged panels

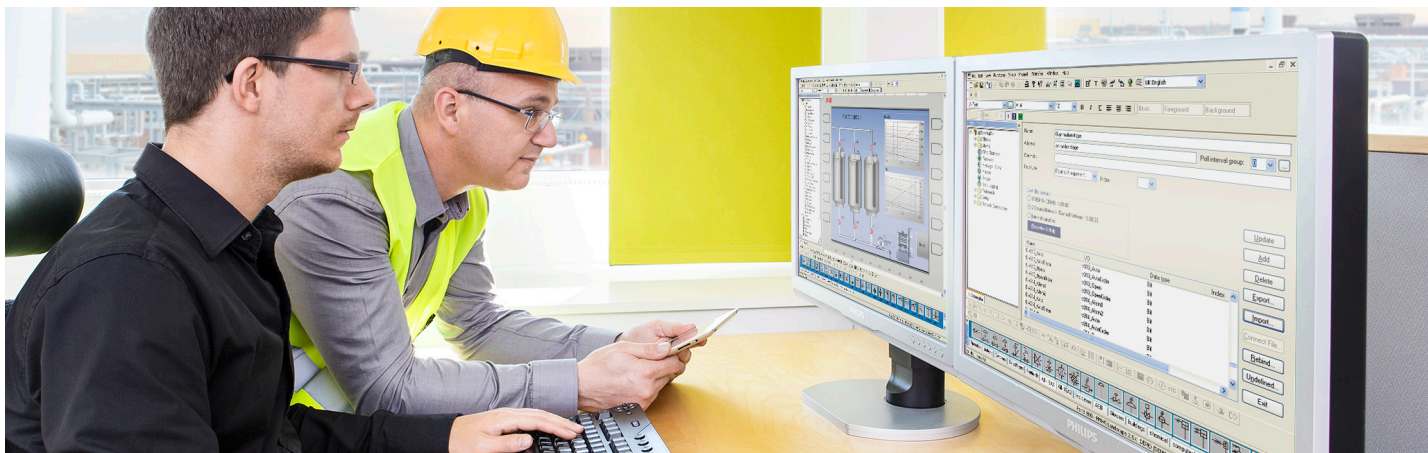


Panel	PP880R	PP885R	PP886H
Article number	3BSE069295R1	3BSE069296R1	3BSE069297R1
Display size	7"	15.4"	15.4"
Display resolution, ratio	800 x 480 (16:9)	1280 x 800 (16:10)	
Display colors	TFT Color LCD with 16.7 million colors LED backlight		
Brightness (cd/m ²)	500	450	1000
View angle (H/V)	140/120	160/140	160/140
Dimming	Maritime optimized to less than 1 cd/m ²		
Interaction type	Resistive touch, 1 million finger touch operations	Resistive touch, 5 million finger touch operations	
Processor	1.0 GHz Intel® Atom™		1.6 GHz Intel® Atom™
Main memory	1 GB		
Application memory	3,5 GB (SLC)		
External storage media	1 x SD card slot (or SDHC with latest image loaded)		
Realtime clock	Yes		
Ethernet (shielded RJ 45)	1 x 10/100 Base-T, 1 x 10/100/1000 Base-T		
USB	3 x USB Host 2.0, max 500mA		
Serial port	1 x RS232, 1 x RS422/485 (isolated)		
Dimension W×H×D (mm)	204 x 143 x 73	410 x 286 x 83	
Cut-out dimension W×H(mm)	188 x 127	394 x 270	
Mounting depth mm ^[1]	43 (143)	76 (176)	
Mounting	Panel Mount and VESA 75 x 75		
Net weight (kg)	1.4	4.7	
Frame material, front foil	Gray powder-coated aluminum, polyester Autoflex EB		
Power supply	12 or 24 VDC (10-32 VDC)		
Power consumption	15.8 W typical @ 24 VDC	28 W typical @ 24 VDC	
Protection (front/rear)	IP66, NEMA 4X / IP20		
Operating temperature	-30 to +70 °C		
Relative operating humidity	5-85% non-condensing		
Storage temperature	-40 to +85 °C		
Vibration/shock	4 G / 40 G		
Environmental and Certification ⁽¹⁾	CE: EN61000-6-4, EN61000-6-2 UL/cUL 61010-2-201 (replacement for UL 508), UL50E Type 4X outdoor DNV, GL, ABS, LR, KR DNV, GL, ABS, LR Hazardous Location: UL/cUL 12.12.01 (UL1604 replacement) Class I Div 2, ATEX (Zone 2), IECEx Ex na IIC Gc, IEC 60079-0 and IEC 60079-15 RoHS compliance: EN 50581:2012 WEEE compliance: DIRECTIVE/2012/19/EU		

(1) For detailed information on each module, please visit:

www.800ahardwareselector.com
www.compacthardwareselector.com

Supported communication drivers



Panel 800 Version 6 Communication Drivers	Type ^[1]
ABB COMLI Master Protocol	Master
ABB COMLI Slave Protocol	Slave
ABB Control Network MMS	Master
ABB Freelance 2016	Master
ABB Modbus AC31	Master
ABB Modbus AC500	Master
ABB TotalFlow	Master
Allen-Bradley Ethernet/IP	Master
Allen-Bradley DF1	Point to Point
Allen-Bradley DH485	Token slave
Allen-Bradley MicroLogix Ethernet	Master
Allen-Bradley SLC/PLC5 Ethernet	Master
Altus Alnet I	Point to Point
Animatics SmartMotor ^[2]	Master
Beckhoff ADS	Master
Bernecker+Rainer Driver	Point to Point
Bosch Rexroth IndraDrive ^[2]	Master
CACTUS ASCII	Master
CoDeSys ARTI	Master
Control Techniques Unidrive ^[3]	Slave
CTC Serial Binary	Point to Point
Delta DVP-Series	Master
Delta Tau PMAC/UMAC	Master
EMERSON Modbus	Master
Fatek Facon	Master
Galil DMC	Master
GE Fanuc Ethernet	Master
GE Fanuc SNPX	Master
G&L Motion Control	Master
Hitachi H-series HCOMM	Point to Point
IAI X-SEL	Master

Panel 800 Version 6 Communication Drivers	Type ^[1]
Idec MICRO series	Point to Point
Johnson Controls	Master
KEB COMBIVERT	Master
KEYENCE KV-Series	Master
Koyo DirectNET	Master
Koyo ECOM	Master
Koyo K-Sequence	Point to Point
Lenze LECOM A/B	Master
LS Glofa	Master
LS Master-K	Master
Matsushita FP-series Mewtocol	Master
MODBUS Master ASCII/RTU/TCP	Master
MODBUS Slave RTU/TCP	Slave
Omron FINS	Master
Omron Host Link	Master
OPC DA and OPC UA Local H ^[4]	Remote Server
Profibus EM Profibus DP ^[3]	Slave
Saia Serial/Ethernet	Master
Schneider Electric TSX Uni-Telway	Master
SIMATIC S5 PG	Point to Point
SIMATIC S7 200 PPI	Master
SIMATIC S7 MPI Direct	Token
SIMATIC S7 ISO over TCP/IP	Master
SIMATIC S7 MPI EM ^[3]	Token
SIMATIC S7 MPI (requires HMI Adapter)	Point to Point
SIMATIC TI500	Point to Point
Vigor M/VB-Series	Master
WAGO Modbus TCP	Master
Yamaha VIP ^[3]	Point to Point
Yaskawa Memobus Master	Master
Yokogawa FA.M3	Master

[1] Type of communication:

- Master: The panel is a master/client and asks one or many slave/servers. (Also Ethernet drivers)
- Slave: The panel is a slave/server and answers.
- Point to Point: The panel asks only one slave; there is no support for multi-drop.
- Token slave: A token network with the possibility for many panels to one PLC, the PLC is considered a slave.
- Token: Supports many panels and many PLCs at the same time on the network.

[2] Not available for PP880R, PP882, PP885, PP885M, PP885H, PP885R and PP886H.

[3] Not possible to use for PP880R, PP885H, PP885M, PP885R and PP886H.

[4] OPC communication (OPC DA and OPC UA) does not work with AC 800M and Freelance.

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