Data sheet

Compact Product Suite
Panel 800 Version 6

Panel 800 Version 6 is a user-friendly, intuitive and ergonomic operator panel that combines slim, space-saving dimensions with a comprehensive range of advanced functions. It is equipped with advanced functionalities for process and equipment control accessible via touch-screen symbols.

The standard panels are PP871, PP874 and PP877, while the high-performance models are PP882 and PP885.

Standard panels	PP871	PP874	PP877
			
Display size	4.3”	7”	10.4”
Display resolution, ratio	480 × 272 (16:9)	800 × 480 (16:9)	640 × 480 (4:3)
Display colors	TFT-LCD 64k LED backlight		
Brightness (cd/m2)	350	350	450
View angle (H/V)	140° / 115°	140° / 130°	160° / 140°
Backlight life time	50,000 hrs	20,000 hrs	50,000 hrs
Touch screen operations	Resistive touch, 1 million finger touch operations		
Processor	ARM9 (400 MHz)		
Main memory	128 MB (DDR2)		
Application memory	80 MB		
External storage media	1 × SD card (optional). Only compatible with the standard SD format with up to 2 GB storage capacity		
Realtime clock	Yes		
Ethernet (shielded RJ 45)	1 × 10 Base-T / 100 Base-T		
USB	1 × USB 2.0, max. 200 mA		
Serial port ½	2 combined ports: 2 × RS232, 2 × RS422/485		
Dimension W×H×D (mm)	145 × 103 × 49	204 × 143 × 49	280 × 228 × 51
Cut-out dimension W×H (mm)	128 × 87	187 × 126	262 × 209
Mounting depth mm (incl. clearance)	43 (143)	43 (143)	44 (144)
Mounting	Panel mount and VESA 50 × 50	Panel Mount and VESA 75 × 75	Panel Mount and VESA 75 × 75
Net weight (kg)	0.5	0.8	1.5
Frame material, front foil	Powder-coated aluminum, Polyester Autotex EBA180L		
Power supply	+24 VDC (18-32 VDC)		
Protection (front/rear	IP66 / IP20	IP66 / IP20	IP65 / IP20
Power consumption	3.6 W	6.0 W	9.6 W
Operating temperature	-10 to + 60 °C		
Relative operating humidity	5-85% non-condensing		
Storage temperature	-20 to + 70 °C		
Certification	CE, UL 508[1], DNV[1, 2]		

[1] For article numbers 3BSE069270R2, 3BSE069271R2 and 3BSE069272R2 or higher.
[2] Type approval certificate from Det Norske Veritas (DNV) complies with DNV's Rules for Classification of Ships, High Speed & Light Craft and DNV's Offshore Standards. Location classes: Temperature: B (tested to -15'C); Humidity: B; Vibration: A; EMC: B; Enclosure: Required protection according to DNV Rules shall be provided upon installation on board.

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High-performance panels: PP880 series

High-performance panels	PP882	PP885
		
Display size	12.1”	15.4”
Display resolution, ratio	1280 x 800 (16:10)	1280x800 (16:10)
Display colors	TFT-LCD 262k LED backlight	
Brightness (cd/m2)	400	450
View angle (H/V)	176° / 176°	160° / 140°
Backlight life time	50,000 hrs	
Touch screen operations	Resistive touch, 1 million finger touch operations	
Processor	Intel® Atom (1.1GHz)	
Main memory	1GB (DDR2)	
Application memory	>=1.4GB	
External storage media	1 × SD card (optional) Only compatible with the standard SD format with up to 2 GB storage capacity.	
Realtime clock	Yes	
Ethernet (shielded RJ 45)	2 built-in ports: 1x10/100/1000 Mbit/s, 1x100 Mbit/s	
USB	3 × USB 2.0, max. 500 mA	
Serial port ½	2 combined ports: 2 × RS232, 2 × RS422/485	
Dimension W×H×D (mm)	340 × 242 × 79	410 × 286 × 83
Cut-out dimension W×H (mm)	324 × 226	394 × 270
Mounting depth mm (including clearance)	72 (172)	76 (176)
Mounting	Panel Mount and VESA 75 × 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)	
Protection (front/rear	IP65 / IP20	
Power consumption	22 W	24 W
Operating temperature	-10 to + 50 °C	
Relative operating humidity	5-85% non-condensing	
Storage temperature	-20 to + 70 °C	
Certification	CE, UL 508, DNV[1]	

[1] Will be available soon.

Supported communication modules

Communication Driver	Type[1]
ABB COMLI Master Protocol	Master
ABB COMLI Slave Protocol	Slave
ABB Control Network MMS	Master
ABB Modbus AC31	Master
ABB Modbus AC500	Master
ABB TotalFlow	Master
Allen-Bradley ControlLogix	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	Master
Beckhoff ADS	Master
Bernecker+Rainer Driver	Point to Point
Bosch Rexroth IndraDrive	Master
Control Techniques Unidrive	Slave
Delta DVP-Series	Master
DEMO	N/A
EMERSON Modbus Master	Master
Fatek Facon	Master
Galil DMC	Master
GE Fanuc Ethernet	Master
GE Fanuc SNPX	Master
Hitachi H-series HCOMM	Point to Point
IAI X-Sel	Master
Idec MICRO series	Point to Point

Communication Driver	Type[1]
Johnson Controls	Master
KEB COMBIVERT	Master
KEYENCE KV-Series	Master
Koyo DirectNET	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[2]	Local Host Remote Server
Saia Serial/Ethernet	Master
SIMATIC S5 PG	Point to Point
SIMATIC S7 ISO over TCP/IP	Master
SIMATIC S7 200 PPI	Master
SIMATIC S7 MPI Direct	Token
SIMATIC S7 MPI EM	Token
SIMATIC S7 MPI (HMI Adapter)	Point to Point
SIMATIC TI500	Point to Point
Vigor M/VB-Series	Master
WAGO Modbus TCP	Master
Yamaha VIP	Point to Point
Yaskawa Memobus	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 OPC communication (OPC DA and OPC UA) does not work with AC 800M and Freelance.

Contact us

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