

PP887S

ABB Ability™ System 800xA® hardware selector



Touchscreen panels with brilliant TFT/LED display colors and multi-protocol connectivity. The rugged range of Panel 800 comprises PP886R, PP887H, PP887H-CFC, and PP887S, easy-to-use HMI with comprehensive and integrated templates and libraries for every conceivable process you need. All rugged panels are equipped with high-resolution graphics in TFT/LED display. Most models offer wide screens, and high-resolution displays for increased efficiency and excellent operator interaction.

Features and benefits

- Easy to use**
 A fully deployable HMI with comprehensive and integrated templates and libraries for every conceivable process. The Panel Builder tool, with a familiar Microsoft® Windows® environment along with multiple language support results in quick, easy, and efficient engineering.
- State-of-the-art graphics**
 Vector-based, high-resolution graphics in TFL/LED display, with icon-based interface, navigation and control.
- Robust and reliable**
 Panel 800 is constructed in a strong yet lightweight diecast, powder-coated aluminum housing. Front casing withstands wet, dusty, and demanding environments. Operating temperatures range between -30° C to + 70° C with a maximum 95% humidity.
- Truly open platform**
 Built on open architecture and technologies that accompany the .NET framework, these panels are capable of multi-brand controller connectivity. A multitude of connection options are available for local communication, expansion, remote access, and more.
- IP66 Sealed panel**
 PP887S is a fully sealed version with M12 connectors with IP66 ingress protection rating and ATEX/IECEX Zone 2 and Zone 22 (IP65) certification. The sealed touch panel has the same tolerance for harsh environments but can be mounted outdoors on a pole, outside of a cabinet.

| General info | |
|---------------------------|---|
| Article number | 3BSE092987R1 |
| Category | Rugged |
| Display type | Touch |
| Display size | 15.4" |
| Brightness | 1000 cd/m ² |
| Display resolution, ratio | 1280 x 800 pixels |
| Processor | ARM9 (1 GHz) |
| Main memory | 2 GB |
| External storage media | 1 x SD card slot (or SDHC with latest image loaded) |
| Dimension WxHxD (mm) | 410 x 286 x 65 mm |
| Power supply | 24 V DC (18 to 32 VDC) |
| Operating temperature | -30 °C to +70 °C |

| Detailed data | |
|---------------------------|---|
| Dimming | Marine optimized dimming down to 0.5 cd/m ² |
| Interaction type | Resistive touch |
| Realtime clock | Yes |
| Ethernet (shielded RJ 45) | 2 x 10/100 Base-T (4 pin M12) |
| USB | 2 x USB 2.0, max 500 mA |
| Serial port | 2 Port 8-pin M12 Serial port 1: RS 232 (RTS/CTS) Serial port 2: RS422 (RTS)/RS485 Serial port 3: RS485 |

| Environment and certification | |
|-------------------------------|--|
| Frame material, front foil | Gray powder-coated aluminum |
| Power consumption | 32 W |
| Protection (front/rear) | Front IP66, NEMA 4X/ 12 and UL Type 4X/ 12. Rear IP66, NEMA 4X/ 12 and UL Type 4X/ 12. |
| Relative operating humidity | 5 % – 95 % non-condensed |
| Storage temperature | -40 °C to +80 °C |
| Vibration and shock | 4 G / 40 G |
| CE-marking | CE, FCC, KCC |
| UL | UL 61010-2-201, UL50E Type 4X, Type 12 |
| Marine | DNV, KR, GL, LR, ABS, CCS |
| Hazardous | UL/cULC1D2, ATEX (Zone2, Zone22), IECEx (Zone2, Zone22) |
| RoHS compliance | DIRECTIVE/2011/65/EU |
| WEEE compliance | DIRECTIVE/2012/19/EU |

| Dimensions | |
|--|---|
| Weight | 4.8 kg |
| Dimension WxHxD (mm) | 410 x 286 x 65 mm |
| Cut-out dimension WxH (mm) | N/A |
| Mounting depth mm. (Including clearance) | The sealed model is mounted on VESA bracket or similar and therefore the mounting depth is the same as dimension. |
| Mounting | Panel Mount, VESA 100 x 100 |

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