

# PP887S

## Freelance 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 <sup>2</sup>
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 <sup>2</sup>
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
RoHS compliance	DIRECTIVE/2011/65/EU
WEEE compliance	DIRECTIVE/2012/19/EU
Hazardous Area ATEX	II 3 G Ex ec nC IIC T4 Gc II 3 D Ex tc IIIC T85 °C Dc
Hazardous Area IECEx	Ex nA nC IIC T4 Gc Ex tc IIIC T85 °C Dc
Hazardous Location US/CAN	CL I, DIV 2, Groups A-D T4
Hazardous Area CCC	Ex ec nC IIC T4 Gc Ex tc IIIC T85 °C Dc

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

—  
[solutions.abb/freelance](https://solutions.abb/freelance)  
[solutions.abb/controlsystems](https://solutions.abb/controlsystems)

—  
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© 2025 ABB All rights reserved