Panel Server Advanced

Panel Server Advanced- Front ISO view

Panel Server has Data Logger and Local Energy Server capabilities. It embodies the level of Energy Management at Edge.
Follow, analyze and compare your loads consumption to enable energy savings.

Functions

- An all-in-one gateway to retrieve data from both your wireless IEEE 802.15.4 devices and Modbus devices.
- Monitor up to three years historized data and analyze your energy consumption directly through the Panel Server Advanced embedded webpages.
- Organize your loads' consumption into Zones and Usage categories to improve visibility in your analytics.
- Connect to your monitoring and control software such as EcoStruxure™ Power Monitoring Expert, EcoStruxure™ Power Operation or to your Building Management System.
- Connect to Schneider Electric cloud applications such as **EcoStruxure™ Energy Hub** or Asset Advisor.
- Ease of commissioning with EcoStruxure™ Power Commission software or directly through the Panel Server webpages.

Main features

- Embedded web server for real-time measurement and alarm visualization, energy and power consumption by usage and zone, 3 years historical trending and dashboarding.
- Power Supply 24 Vdc, 110...277 Vac/dc, PoE-PD (CLASS 0, IEEE802.3af/at).
- Designed to match demanding electrical switchboard environment (temperature, humidity electromagnetic compatibility).
- Two Ethernet 10Base-T/100Base-T port (supporting switched or separated network topology).
- Connect easily to the embedded webpages through your Wi-Fi Infrastructure or Ethernet connection.
- Modbus RS485 serial communication.
- IEEE 802.15.4 wireless communication.
- Modbus TCP/IP server and client.
- Support of HTTPS, NTP, SNTP, and DHCP client with proxy management.
- Modbus RS485 to Modbus TCP/IP Gateway.
- Wireless devices concentrator to Modbus TCP/IP.
- Two digital inputs (PAS800L) for contact information or WAGES pulse meter.
- Designed through a Secured Development Life Cycle in accordance to IEC 62443-4-1.
- Commissioning through EcoStruxure™ Power Commission or though Embedded Web-Pages.
- Wi-Fi Access point connection for seamless commissioning with EPC-Mobile.
- Support for RSTP protocol to help IT specialists re-establish.
- communication paths through Ethernet after an interruption is detected.
- 3 years Data Logger with 32 GB memory.
- Real-time alarm display and e-mail notification.
- Event and alarm historization and dashboarding.

Compatible accessories

- Wi-Fi external antenna (PASA-ANT1)
- IEEE 802.15.4 external antenna (PASA-ANT1)

Standards & certifications

- IEC 61010-1
- IEC 61010-2-201
- UL 61010-1
- UL 61010-2-201
- IEC 62974-1
- ETSI EN 301 489-1 V.2.2.3
- ETSI EN 301 489-17 V.3.2.4
- IEC 61326-1
- IEC 62974-1
- EN50581
- EN 62321
- EN 62474
- ETSI EN 300 328 V2.2.2

Comm. Reference	Description
PAS800L	Panel Server Advanced with 24 Vdc power supply
PAS800P	Panel Server Advanced with PoE power supply
PAS800	Panel Server Advanced with 110...277 Vac/dc power supply

Panel Server Advanced

Panel Server Advanced technical specification

Technical data			EcoStruxure™ Panel Server Advanced	
Commercial Reference		PAS800	PAS800L	PAS800P
Power Supply				
Voltage		110...277 Vac/dc	24 Vdc	PoE
Tolerance		± 10 %	± 10 %	
Frequency		45...65 Hz	NA	
Maximum consumption		3 W/10 VA	3 W	3.5 W
Ethernet and Wi-Fi				
Ethernet 10/100base T	Number of Ports	Two RJ45 ports		
	PoE 802.3af and 802.3at Class 0	No		1 port (PD)
Wi-Fi Infrastructure	Supported Frequency	2.4 & 5 GHz		
Wi-Fi acces point	Supported Frequency	2.4 GHz		
TCP/IP		Yes		
IP V4/IP V6		Yes		
DPWS		Yes		
DHCP	Client	Yes		
	Server (Separate Nework)	No		
Modbus TCP/IP Server	Max. number of client connection	64		
Modbus TCP/IP Client	Max. number of Modbus TCP/IP devices	128 [+2]		
Schneider Electric Cloud Services		Yes		
HTTPS		Yes		
External Wi-Fi/Antenna		PASA-ANT1		
Wireless Devices (IEEE 802.15.4)				
Number of devices	Total for mixed network	up to 40 devices [+2]		
	PowerTag Energy, Acti9 Active, Wireless breaker auxiliaries	up to 85 devices [+2]		
	Easergy TH110/CL110, environmental sensors	up to 100 devices [+2]		
External IEEE 802.15.4 Antenna		PASA-ANT1		
Serial Ports				
Modbus RS485 Client	Max. number of devices	32 devices		
	Maximum Length	1000 m		
	Baud Rate	1200, 4800, 9600, 19200, 38400, 57600, and 115200		
Functionality				
Data Buffering for Data Publication		3 months [+3]		
Data publication		Over Cloud Application, SFTP or HTTPS server		
Data Logger and Web-Server	Historical Data Logging	3 years		
	Historical Event Logging	Yes [+2]		
	Real-Time data and event monitoring	Yes		
	Historical data trending	Yes		
Time Management	RTC (with battery)	Yes		
	TimeUpdate (NTP & SNTP)	Yes		
Digital inputs				
Two DI	WAGES & Dry-Contact	No	Yes	No
Environmental				
Protection Degree	Front Face	IP40		
	Others	IP20		
OverVoltage Category		OVC III		
Polution Degree		2	3	2
Temperature	Operation	-25...70 °C		
	Storage	-40...85 °C		
Altitude Max.		< 2000 m	< 5000 m [+4]	< 2000 m
Relative Humidity		5...95%		
Mechanical				
Form factor		Acti9		
Installation		Din Rail		
Width		72 mm		
Weight		206 g	186 g	184 g
Standard & Certification				
Certifications		CE, CULus, CB, RCM, UKCA, FCC, IC, RF, and Marine certification (DNV)		
Standards		EN/ IEC 61010-1, EN/IEC 61010-2-201, UL 61010-1, UL 61010-2-201, CSA C22.2 No 61010-1-12, CAN/CSA C22.2 No 61010-2-201, EN IEC 62974-1, EN/IEC 61326-1, ETSI EN 301-489-1, ETSI EN 301-489-17, ETSI EN 300-328, IEEE 802.15.4, IEEE 802.11b/g/n, IEEE 802.3 af/at, EN 301-893, IEC 60945, 47 CFR FCC Part 15, Subpart B, Class A, and EN IEC 62311		

[+1] Lower limits may apply according to your hardware version. Consult the User Manual to check the limit applicable to your wireless devices.
[+2] Lower limits may apply depending on the firmware version, the serial line length, and the type of device(s). Consult the User Manual, Release Notes or other documentations.
[+3] Applicable for Cloud, SFTP and HTTPS publication. Lower limits may apply according to the size of your network.
[+4] With an altitude between 2000 m and 4000 m, the operating temperature tolerance is of -25...+60 °C. Between 4000 m and 5000 m, the operating temperature tolerance will be decreased of 1 °C every additional 200 m.

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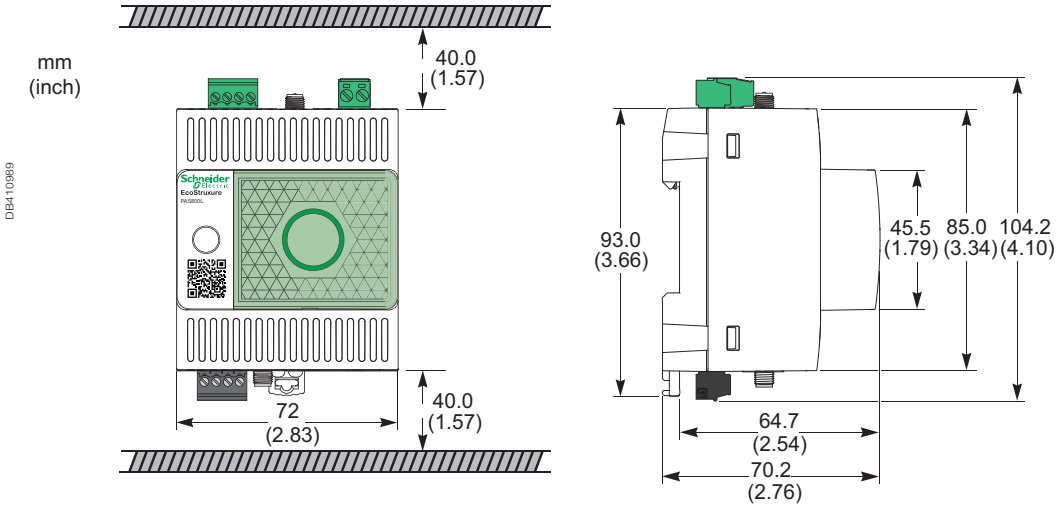
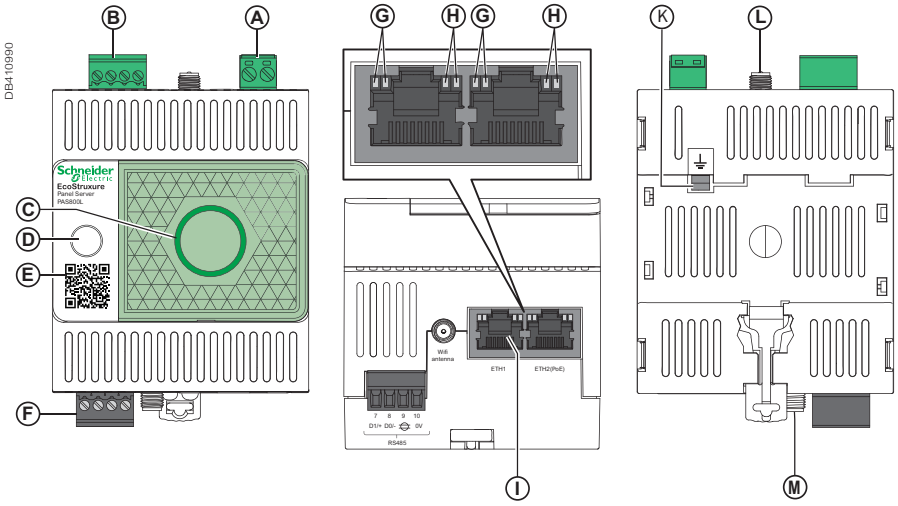
Panel Server Advanced

Panel Server Advanced dimensions



Panel Server Advanced physical descriptions



- A Power supply terminal block (PAS800 & PAS800L only)
- B Digital input terminal block (PAS800L only)
- C EcoStruxure™ Panel Server status LED
- D Restart button
- E QR code to product information
- F RS-485 Modbus communication port
- G Ethernet LED 1: Speed
- H Ethernet LED 2: Activity
- I Ethernet 1 communication port
- J Ethernet 2 communication port (PAS800 & PAS800L only)/Ethernet 2 communication port - PoE (PAS800P only)
- K Grounding connection
- L IEEE802.15.4 external antenna port
- M Wifi external antenna port

Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.

www.se.com

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As standards, specifications and designs develop from time to time, please ask for confirmation of the information given in this document.