

Product Environmental Profile

EcoStruxure Panel Server





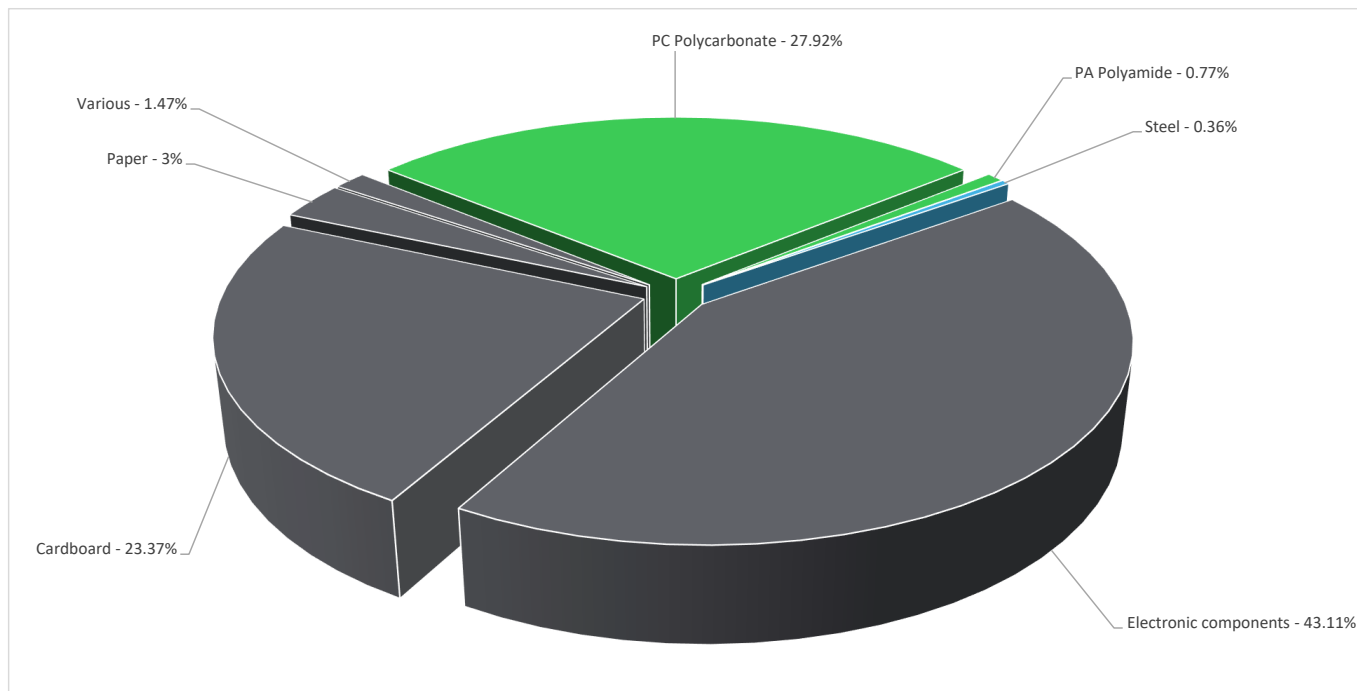
General information

Reference product	EcoStruxure Panel Server - PAS800
Description of the product	The PAS800 is an advanced EcoStruxure Panel Server that seamlessly connects wired and wireless IoT energy devices while delivering real-time monitoring, diagnostics, and long-term data logging for efficient energy management.
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology. "The Reference product is PAS800 (EcoStruxure Panel Server Advanced). The range includes EcoStruxure Panel Server products having different applications (Entry-level energy monitoring, Datalogging for energy and power parameters, High-performance gateway functionality)" The products of the range are: PAS8xxx, PAS6xxx, PAS6xxxWD and PAS4xxx.
Functional unit	The PAS800 collects and transmits energy and power-related data from connected wired and wireless IoT devices through Ethernet, Wi-Fi, Wireless IEEE 802.15.4, and Modbus communication interfaces, with a capacity for up to 64 Modbus devices. It provides real-time monitoring, diagnostics, and analytics via embedded web pages and onboard processing with data logging capability according to the reference usage scenario and during a reference service life of 10 years
Specifications are:	Rated supply voltage: 110–277 V AC/DC Maximum consumption: 3.5 W/12 VA Supports Ethernet, Wi-Fi, and Modbus RS485 communication IP20 (IP40 front face) degree of protection in accordance with the standard IEC 60529.



Constituent materials

Reference product mass	271 g	including the product and its packaging
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Plastics	28.7%
Metals	0.3%
Others	71.0%



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website

<https://www.se.com>

**Additional environmental information**

End Of Life	Recyclability potential:	1%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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**Environmental impacts**

Reference service life time	10 years		
Product category	Other equipments - Active product		
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study		
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption		
Installation elements	The product does not require any installation operations and only packaging disposal was considered		
Use scenario	The product is in active mode 5% of the time with a power use of 3.5W, in standby mode 80% of the time with a power use of 2.75W and in sleep mode 15% of the time with a power use of 1.5W for 10 years.		
Time representativeness	The collected data are representative of the year 2025		
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.		
Geographical representativeness	Final assembly site	Use phase	
	SEIPL, Bangalore, India	Global	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; United States, US	No energy used	Electricity Mix; Low voltage; 2020; Europe, EU-27
			Electricity Mix; Low voltage; 2020; United States, US
			Electricity Mix; Low voltage; 2020; Asia Pacific, APAC
			Electricity Mix; Low voltage; 2020; Australia, AU
			Electricity Mix; Low voltage; 2020; Morocco, MA
[C1 - C4]	Global		
Global, European and French datasets are used.			

Detailed results of the optional indicators mentioned in PCRd4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

Mandatory Indicators		EcoStruxure Panel Server - PAS800						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	1.33E+02	2.06E+01	1.68E-01	1.53E-01	1.11E+02	6.02E-01	-1.35E-03
Contribution to climate change-fossil	kg CO2 eq	1.32E+02	2.08E+01	1.68E-01	3.54E-02	1.10E+02	6.02E-01	-1.24E-03
Contribution to climate change-biogenic	kg CO2 eq	1.53E+00	-1.17E-01	0*	1.17E-01	1.53E+00	0*	-1.17E-04
Contribution to climate change-land use and land use change	kg CO2 eq	1.22E-04	1.22E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.32E-06	3.67E-06	1.48E-07	9.21E-10	5.07E-07	6.07E-10	-3.88E-10
Contribution to acidification	mol H+ eq	7.29E-01	9.31E-02	7.30E-04	1.55E-04	6.35E-01	4.18E-04	-9.75E-05
Contribution to eutrophication, freshwater	kg P eq	2.35E-04	5.52E-05	0*	3.01E-08	1.77E-04	2.72E-06	-1.76E-09
Contribution to eutrophication marine	kg N eq	8.43E-02	1.09E-02	3.35E-04	3.90E-05	7.29E-02	1.99E-04	-1.45E-06
Contribution to eutrophication, terrestrial	mol N eq	1.14E+00	1.21E-01	3.63E-03	5.16E-04	1.01E+00	2.07E-03	-1.70E-05
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.75E-01	3.64E-02	1.19E-03	1.10E-04	2.36E-01	5.01E-04	-1.09E-05
Contribution to resource use, minerals and metals	kg Sb eq	4.00E-03	3.98E-03	0*	0*	2.63E-05	0*	-9.53E-07
Contribution to resource use, fossils	MJ	2.58E+03	2.18E+02	2.09E+00	4.74E-01	2.36E+03	7.82E-01	-2.21E-02
Contribution to water use	m3 eq	1.53E+01	7.80E+00	8.52E-03	2.34E-03	7.46E+00	2.40E-02	-4.77E-03

Inventory flows Indicators		EcoStruxure Panel Server - PAS800						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.70E+02	1.91E+01	0*	0*	4.51E+02	0*	-2.51E-03
Contribution to use of renewable primary energy resources used as raw material	MJ	5.69E-01	5.69E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	4.70E+02	1.96E+01	0*	0*	4.51E+02	0*	-2.51E-03
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.58E+03	2.14E+02	2.09E+00	4.74E-01	2.36E+03	7.82E-01	-2.21E-02
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.96E+00	3.96E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.58E+03	2.18E+02	2.09E+00	4.74E-01	2.36E+03	7.82E-01	-2.21E-02
Contribution to use of secondary material	kg	4.40E-02	4.40E-02	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	3.55E-01	1.80E-01	1.98E-04	5.38E-05	1.74E-01	5.62E-04	-1.11E-04
Contribution to hazardous waste disposed	kg	6.65E+01	6.33E+01	0*	2.77E-02	2.99E+00	1.22E-01	-7.37E-02
Contribution to non hazardous waste disposed	kg	2.28E+01	5.14E+00	0*	6.68E-03	1.75E+01	9.14E-02	-1.01E-04
Contribution to radioactive waste disposed	kg	5.73E-03	2.53E-03	3.34E-05	1.51E-06	3.16E-03	4.15E-06	-1.07E-07
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.27E-03	3.66E-03	0*	0*	0*	1.61E-03	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	1.64E-05	6.49E-06	0*	0*	0*	9.95E-06	0.00E+00

* represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product kg of C 0.00E+00

Contribution to biogenic carbon content of the associated packaging kg of C 2.18E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39.52%), and APESA/RECORD for Paper (37.8%)

Mandatory Indicators		EcoStruxure Panel Server - PAS800							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.11E+02	0*	0*	0*	0*	0*	1.11E+02	0*
Contribution to climate change-fossil	kg CO2 eq	1.10E+02	0*	0*	0*	0*	0*	1.10E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	1.53E+00	0*	0*	0*	0*	0*	1.53E+00	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	5.07E-07	0*	0*	0*	0*	0*	5.07E-07	0*
Contribution to acidification	mol H+ eq	6.35E-01	0*	0*	0*	0*	0*	6.35E-01	0*
Contribution to eutrophication, freshwater	kg P eq	1.77E-04	0*	0*	0*	0*	0*	1.77E-04	0*
Contribution to eutrophication marine	kg N eq	7.29E-02	0*	0*	0*	0*	0*	7.29E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	1.01E+00	0*	0*	0*	0*	0*	1.01E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.36E-01	0*	0*	0*	0*	0*	2.36E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	2.63E-05	0*	0*	0*	0*	0*	2.63E-05	0*
Contribution to resource use, fossils	MJ	2.36E+03	0*	0*	0*	0*	0*	2.36E+03	0*
Contribution to water use	m³ eq	7.46E+00	0*	0*	0*	0*	0*	7.46E+00	0*


Inventory flows Indicators		EcoStruxure Panel Server - PAS800							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.51E+02	0*	0*	0*	0*	0*	4.51E+02	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	4.51E+02	0*	0*	0*	0*	0*	4.51E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.36E+03	0*	0*	0*	0*	0*	2.36E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	2.36E+03	0*	0*	0*	0*	0*	2.36E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	1.74E-01	0*	0*	0*	0*	0*	1.74E-01	0*
Contribution to hazardous waste disposed	kg	2.99E+00	0*	0*	0*	0*	0*	2.99E+00	0*
Contribution to non hazardous waste disposed	kg	1.75E+01	0*	0*	0*	0*	0*	1.75E+01	0*
Contribution to radioactive waste disposed	kg	3.16E-03	0*	0*	0*	0*	0*	3.16E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v6.3.4, database version 2025-04 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

Extrapolation rules are based on mass proportionality for the manufacturing, distribution, installation, and end-of-life stages, while energy consumption is used as the scaling parameter for the use phase. Results for the other products of the range are available upon request

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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Verifier accreditation N°	VH42	Information and reference documents	www.pep-ecopassport.org
Date of issue	04-2026	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal External X			
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with NF C08-100-1:2022 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			
			

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