Product Environmental Profile

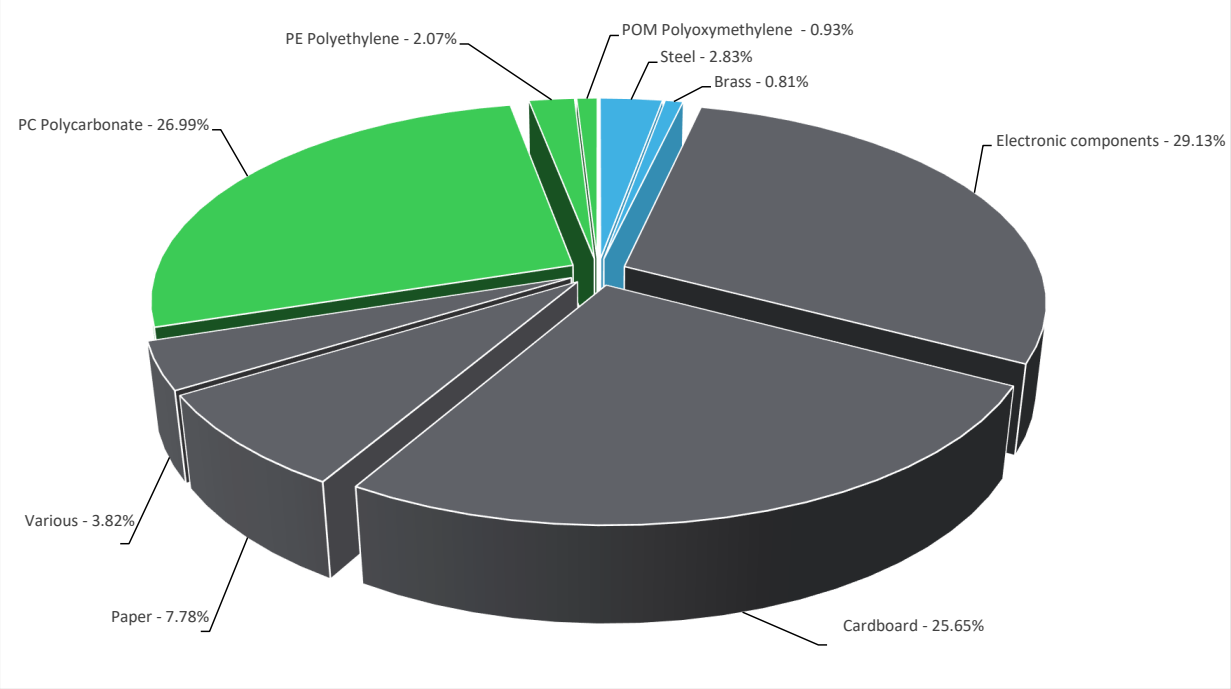
PowerLogic™ PM5350 series

General information

Reference product	PowerLogic™ PM5350 series - METSEPM5350
Description of the product	The PowerLogic™ PM5350 series offers all the high performance measurement capabilities required to monitor electrical installation in a single 96 x 96 mm unit. These meters are used to monitor instantaneous values (I, V, PF, P, Q, S, THD) as much as data linked with Power demands and Energies. It allows the user to identify any energy waste, potential power distribution malfunctions which can results in inefficiency of energy usage.
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 the PowerLogic™ PM5350 series. The range includes the PM5350P, which offers additional features such as multi-tariff power monitoring with up to 15 tariffs, 64 samples per cycle, THD and individual harmonics up to the 31st order, along with enhanced tariff-based logging The products of the range are: METSEPM5350P
Functional unit	PowerLogic™ PM5350 Offers to measures high-accuracy electrical parameters like voltage, current, frequency, power (active, reactive, apparent), energy, and power factor, maintaining a class 0,5s accuracy for energy readings over a 10-year reference service lifetime.
Specifications are:	1. The meter will measure Energy, Active and Reactive Power, Voltage, Current, Frequency and Power Factor. Include a non-volatile memory for several parameters and alarms. The meter will function in a 50Hz or 60Hz network and accepts supply voltage ranging from 85 to 265 VAC and 100 to 300 VDC. 2. Line rated current for this meter is 1A or 5A input and will support Single Phase and Neutral, Three Phase, or Three Phase and Neutral configurations. The range of measurement voltage between Phases is 20V AC to 480V AC, CAT III or 20V AC to 690V AC, CAT II at 45 Hz to 70 Hz. The range of measurement voltage between Phase and Neutral is 20V AC to 277V AC, CAT III or 20V AC to 400V AC, CAT II at 45 Hz to 70 Hz. Communication protocol is Modbus RTU and ASCII 2 wires with RS485 port support. The meter also has four digital inputs and dual relay outputs.

Constituent materials

Reference product mass	394.8 g	Including the product and its packaging



Plastics	30.0%
Metals	3.6%
Others	66.4%

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:	**6%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB 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).

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 special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal)
Time representativeness	The collected data are representative of the year 2024
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**		**End-of-life**
	India	Asia		Asia
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Low voltage; 2020; Europe,EU Electricity Mix; Low voltage; 2020; France, FR Electricity Mix; Low voltage; 2020; China, CN	No energy used	Electricity Mix; Low voltage; 2020; France, FR Electricity Mix; Low voltage; 2020; Australia, AU Electricity Mix; Low voltage; 2020; Indonesia, ID Electricity Mix; Low voltage; 2020; Malaysia, MY Electricity Mix; Low voltage; 2020; Asia Pacific, APAC Electricity Mix; Low voltage; 2020; Taiwan, TW Electricity Mix; Low voltage; 2020; Thailand, TH Electricity Mix; Low voltage; 2020; Vietnam, VN	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

Mandatory Indicators		**PowerLogic™ PM5350 series - METSEPM5350**						
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	1.54E+02	7.01E+00	1.98E-01	2.49E-01	1.46E+02	6.82E-01	-4.32E-02
Contribution to climate change-fossil	kg CO2 eq	1.53E+02	7.12E+00	1.98E-01	4.65E-02	1.45E+02	6.72E-01	7.43E-02
Contribution to climate change-biogenic	kg CO2 eq	8.61E-01	-1.12E-01	0*	1.12E-01	8.51E-01	9.99E-03	-1.17E-01
Contribution to climate change-land use and land use change	kg CO2 eq	6.18E-06	6.18E-06	0*	0*	0*	6.99E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.27E-06	1.34E-06	1.75E-07	1.71E-09	7.51E-07	1.32E-09	-1.02E-09
Contribution to acidification	mol H+ eq	1.01E+00	3.91E-02	8.62E-04	2.85E-04	9.73E-01	5.71E-04	3.77E-04
Contribution to eutrophication, freshwater	kg P eq	1.11E-04	4.30E-05	2.32E-08	5.48E-08	6.53E-05	3.07E-06	1.57E-06
Contribution to eutrophication marine	kg N eq	1.13E-01	4.91E-03	3.96E-04	7.19E-05	1.07E-01	2.38E-04	1.49E-04
Contribution to eutrophication, terrestrial	mol N eq	1.32E+00	5.44E-02	4.29E-03	9.46E-04	1.26E+00	2.53E-03	1.17E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.77E-01	1.71E-02	1.41E-03	2.01E-04	3.57E-01	6.19E-04	2.86E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.78E-03	1.77E-03	0*	0*	1.35E-05	0*	-9.10E-06
Contribution to resource use, fossils	MJ	2.59E+03	8.86E+01	2.47E+00	8.60E-01	2.49E+03	1.15E+00	5.78E-01
Contribution to water use	m3 eq	1.11E+01	3.42E+00	1.01E-02	2.69E-03	7.67E+00	3.28E-02	1.33E-02

Inventory flows Indicators		PowerLogic™ PM5350 series - METSEPM5350						
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	1.93E+02	7.02E+00	0*	7.37E-02	1.86E+02	0*	-3.50E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	8.66E-01	8.66E-01	0*	0*	0*	0*	1.49E+00
Contribution to total use of renewable primary energy resources	MJ	1.94E+02	7.89E+00	0*	7.37E-02	1.86E+02	0*	1.14E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.58E+03	8.65E+01	2.47E+00	8.60E-01	2.49E+03	1.15E+00	5.78E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.06E+00	2.06E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.59E+03	8.86E+01	2.47E+00	8.60E-01	2.49E+03	1.15E+00	5.78E-01
Contribution to use of secondary material	kg	9.38E-02	9.38E-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	m^3	2.59E-01	7.91E-02	2.34E-04	6.16E-05	1.79E-01	7.86E-04	3.11E-04
Contribution to hazardous waste disposed	kg	2.08E+01	1.64E+01	0*	5.05E-02	4.18E+00	1.13E-01	-7.16E-01
Contribution to non hazardous waste disposed	kg	2.69E+01	1.88E+00	0*	6.15E-03	2.49E+01	1.49E-01	3.84E-02
Contribution to radioactive waste disposed	kg	3.39E-03	1.07E-03	3.94E-05	2.56E-06	2.28E-03	5.95E-06	1.78E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.49E-02	1.19E-03	0*	0*	0*	1.37E-02	0.00E+00
Contribution to materials for energy recovery	kg	1.29E-01	0*	0*	1.29E-01	0*	0*	0.00E+00
Contribution to exported energy	MJ	1.46E-04	9.56E-06	0*	0*	0*	1.36E-04	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	3.90E-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		PowerLogic™ PM5350 series - METSEPM5350							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.46E+02	0*	0*	0*	0*	0*	1.46E+02	0*
Contribution to climate change-fossil	kg CO2 eq	1.45E+02	0*	0*	0*	0*	0*	1.45E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	8.51E-01	0*	0*	0*	0*	0*	8.51E-01	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	7.51E-07	0*	0*	0*	0*	0*	7.51E-07	0*
Contribution to acidification	mol H+ eq	9.73E-01	0*	0*	0*	0*	0*	9.73E-01	0*
Contribution to eutrophication, freshwater	kg P eq	6.53E-05	0*	0*	0*	0*	0*	6.53E-05	0*
Contribution to eutrophication marine	kg N eq	1.07E-01	0*	0*	0*	0*	0*	1.07E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	1.26E+00	0*	0*	0*	0*	0*	1.26E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.57E-01	0*	0*	0*	0*	0*	3.57E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.35E-05	0*	0*	0*	0*	0*	1.35E-05	0*
Contribution to resource use, fossils	MJ	2.49E+03	0*	0*	0*	0*	0*	2.49E+03	0*
Contribution to water use	m3 eq	7.67E+00	0*	0*	0*	0*	0*	7.67E+00	0*

Inventory flows Indicators		PowerLogic™ PM5350 series - METSEPM5350							
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	1.86E+02	0*	0*	0*	0*	0*	1.86E+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	1.86E+02	0*	0*	0*	0*	0*	1.86E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.49E+03	0*	0*	0*	0*	0*	2.49E+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	2.49E+03	0*	0*	0*	0*	0*	2.49E+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	m^3	1.79E-01	0*	0*	0*	0*	0*	1.79E-01	0*
Contribution to hazardous waste disposed	kg	4.18E+00	0*	0*	0*	0*	0*	4.18E+00	0*
Contribution to non hazardous waste disposed	kg	2.49E+01	0*	0*	0*	0*	0*	2.49E+01	0*
Contribution to radioactive waste disposed	kg	2.28E-03	0*	0*	0*	0*	0*	2.28E-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 v6.2.5-6, database version 2024-01 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.

Registration number :	SCHN-02132-V01.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	11-2025	*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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