

Product Environmental Profile

PowerLogic PM5560 Power Meter and Energy Meter





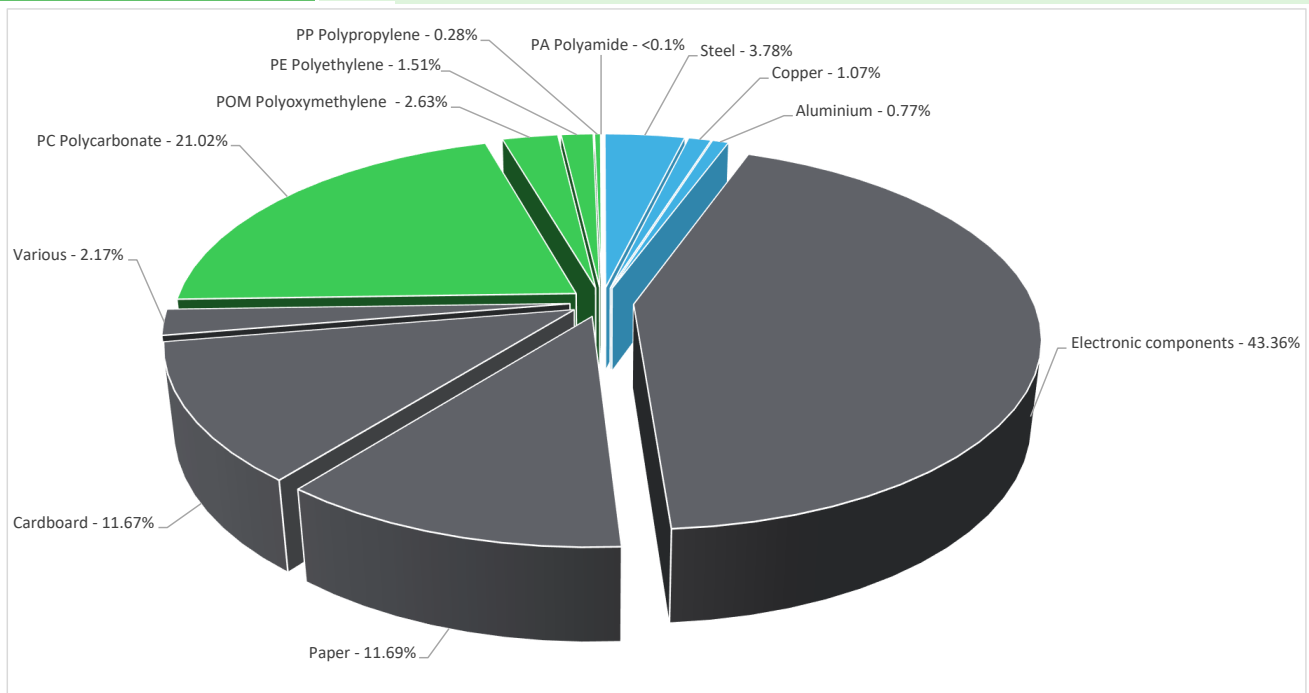
General information

Reference product	PowerLogic PM5560 Power Meter and Energy Meter - METSEPM5560
Description of the product	The METSEPM5560 is a power and energy meter that provides functions to measure Energy, Active and Reactive Power, Voltage, Current, Frequency, Power Factor and up to the 63rd Harmonic. It offers an extensive array of power quality analysis features, including Total Harmonic Distortion, Total Demand Distortion measurements, and individual harmonics magnitudes and angles for voltage and current. The critical power quality parameters play a pivotal role in identifying the sources of harmonics that can potentially impact and damage transformers, capacitors, generators, motors, and electronic equipment. It also ensure the highest levels of power quality and metering precision to protect critical IT infrastructure and equipment.
Description of the range	Single product
Functional unit	PM5560 is a power and energy meter that provides functions such as measuring electrical parameters, monitoring power quality and enabling energy management during the lifetime of 15 years. It helps users analyze and optimize energy usage while ensuring power quality and reliability.
Specifications are:	Measured Current - 50...10000 mA Maximum power consumption in VA - 16 VA at 480 V AC control power Operating Range - 100-480 V AC $\pm 10\%$ CAT III 600V class per IEC 61010 DC control power Operating Range - 125-250 V DC $\pm 20\%$ (100 to 300 V DC) IP degree of protection - IP54 display and IP30 rear conforming to IEC 60529



Constituent materials

Reference product mass	661 g	including the product, its packaging, additional elements and accessories
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Plastics	25.5%
Metals	5.6%
Others	68.9%



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:	7%	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	15 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 10% of the time with a power use of 4W and in stand-by mode 90% of the time with a power use of 3.5W for 15 years. "The 15-year reference service lifetime is established based on extensive testing and analysis, ensuring reliability and optimal performance throughout the product's lifecycle. This duration reflects industry standards and user expectations, providing confidence that our solutions will meet operational needs effectively over time."			
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.			
Final assembly site	India			
Geographical representativeness	Rest of the World			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; India, IN Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Brazil, BR Electricity Mix; Low voltage; 2020; Europe, EU-27	-	Electricity Mix; Low voltage; 2020; Europe, EU-27	Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; Global, GLO
			Electricity Mix; Low voltage; 2020; United States, US	
			Electricity Mix; Low voltage; 2020; Asia Pacific, APAC	
			Electricity Mix; Low voltage; 2020; Australia, AU	

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 PM5560 Power Meter and Energy Meter - METSEPM5560						
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	3.28E+02	3.60E+01	2.60E-01	4.79E-02	2.90E+02	1.30E+00	-1.77E-01
Contribution to climate change-fossil	kg CO2 eq	3.28E+02	3.62E+01	2.60E-01	4.79E-02	2.90E+02	1.30E+00	-1.73E-01
Contribution to climate change-biogenic	kg CO2 eq	-1.27E-02	-2.42E-01	0*	-3.36E-06	0*	0*	-3.62E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.60E-04	1.60E-04	0*	0*	0*	2.34E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.08E-05	9.34E-06	0*	0*	1.45E-06	3.22E-09	-2.74E-08
Contribution to acidification	mol H+ eq	1.97E+00	1.41E-01	1.65E-03	0*	1.83E+00	1.28E-03	-2.11E-03
Contribution to eutrophication, freshwater	kg P eq	4.04E-04	1.31E-04	9.78E-08	0*	2.23E-04	4.96E-05	-4.22E-07
Contribution to eutrophication marine	kg N eq	2.29E-01	2.17E-02	7.74E-04	3.92E-05	2.06E-01	4.83E-04	-1.07E-04
Contribution to eutrophication, terrestrial	mol N eq	2.73E+00	2.21E-01	8.49E-03	4.12E-04	2.49E+00	5.13E-03	-1.23E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	7.53E-01	6.82E-02	2.14E-03	9.65E-05	6.81E-01	1.30E-03	-4.79E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.10E-02	1.09E-02	0*	0*	4.44E-05	1.41E-06	-3.89E-05
Contribution to resource use, fossils	MJ	5.90E+03	5.68E+02	3.64E+00	0*	5.32E+03	7.01E+00	-3.35E+00
Contribution to water use	m3 eq	3.42E+01	1.65E+01	0*	1.77E-02	1.69E+01	8.07E-01	-1.16E-01

Inventory flows Indicators		PowerLogic PM5560 Power Meter and Energy Meter - METSEPM5560						
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	7.72E+02	2.11E+01	0*	0*	7.51E+02	0*	-9.03E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	2.94E+00	2.94E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	7.75E+02	2.40E+01	0*	0*	7.51E+02	0*	-9.03E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.89E+03	5.59E+02	3.64E+00	0*	5.32E+03	7.01E+00	-3.35E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	8.71E+00	8.71E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	5.90E+03	5.68E+02	3.64E+00	0*	5.32E+03	7.01E+00	-3.35E+00
Contribution to use of secondary material	kg	0.00E+00	0*	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	8.13E-01	3.83E-01	0*	4.12E-04	3.94E-01	3.55E-02	-3.16E-03
Contribution to hazardous waste disposed	kg	2.13E+02	2.05E+02	0*	0*	8.44E+00	2.84E-01	-3.20E+00
Contribution to non hazardous waste disposed	kg	6.59E+01	1.49E+01	9.15E-03	1.68E-01	5.07E+01	1.85E-01	-1.95E-01
Contribution to radioactive waste disposed	kg	1.01E-01	9.47E-02	0*	0*	5.85E-03	0*	-1.29E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.70E-02	9.07E-04	0*	0*	0*	3.61E-02	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	3.78E-04	2.05E-05	0*	0*	0*	3.57E-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 5.03E-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 PM5560 Power Meter and Energy Meter - METSEPM5560							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	2.90E+02	0*	0*	0*	0*	0*	2.90E+02	0*
Contribution to climate change-fossil	kg CO2 eq	2.90E+02	0*	0*	0*	0*	0*	2.90E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	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	1.45E-06	0*	0*	0*	0*	0*	1.45E-06	0*
Contribution to acidification	mol H+ eq	1.83E+00	0*	0*	0*	0*	0*	1.83E+00	0*
Contribution to eutrophication, freshwater	kg P eq	2.23E-04	0*	0*	0*	0*	0*	2.23E-04	0*
Contribution to eutrophication marine	kg N eq	2.06E-01	0*	0*	0*	0*	0*	2.06E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	2.49E+00	0*	0*	0*	0*	0*	2.49E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.81E-01	0*	0*	0*	0*	0*	6.81E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	4.44E-05	0*	0*	0*	0*	0*	4.44E-05	0*
Contribution to resource use, fossils	MJ	5.32E+03	0*	0*	0*	0*	0*	5.32E+03	0*
Contribution to water use	m3 eq	1.69E+01	0*	0*	0*	0*	0*	1.69E+01	0*

Inventory flows Indicators		PowerLogic PM5560 Power Meter and Energy Meter - METSEPM5560							
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	7.51E+02	0*	0*	0*	0*	0*	7.51E+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	7.51E+02	0*	0*	0*	0*	0*	7.51E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.32E+03	0*	0*	0*	0*	0*	5.32E+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	5.32E+03	0*	0*	0*	0*	0*	5.32E+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	3.94E-01	0*	0*	0*	0*	0*	3.94E-01	0*
Contribution to hazardous waste disposed	kg	8.44E+00	0*	0*	0*	0*	0*	8.44E+00	0*
Contribution to non hazardous waste disposed	kg	5.07E+01	0*	0*	0*	0*	0*	5.07E+01	0*
Contribution to radioactive waste disposed	kg	5.85E-03	0*	0*	0*	0*	0*	5.85E-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 v6.2.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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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		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	01-2025	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 XP C08-100-1:2016 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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