

# Product Environmental Profile

## PM5660 Residual current monitor meter





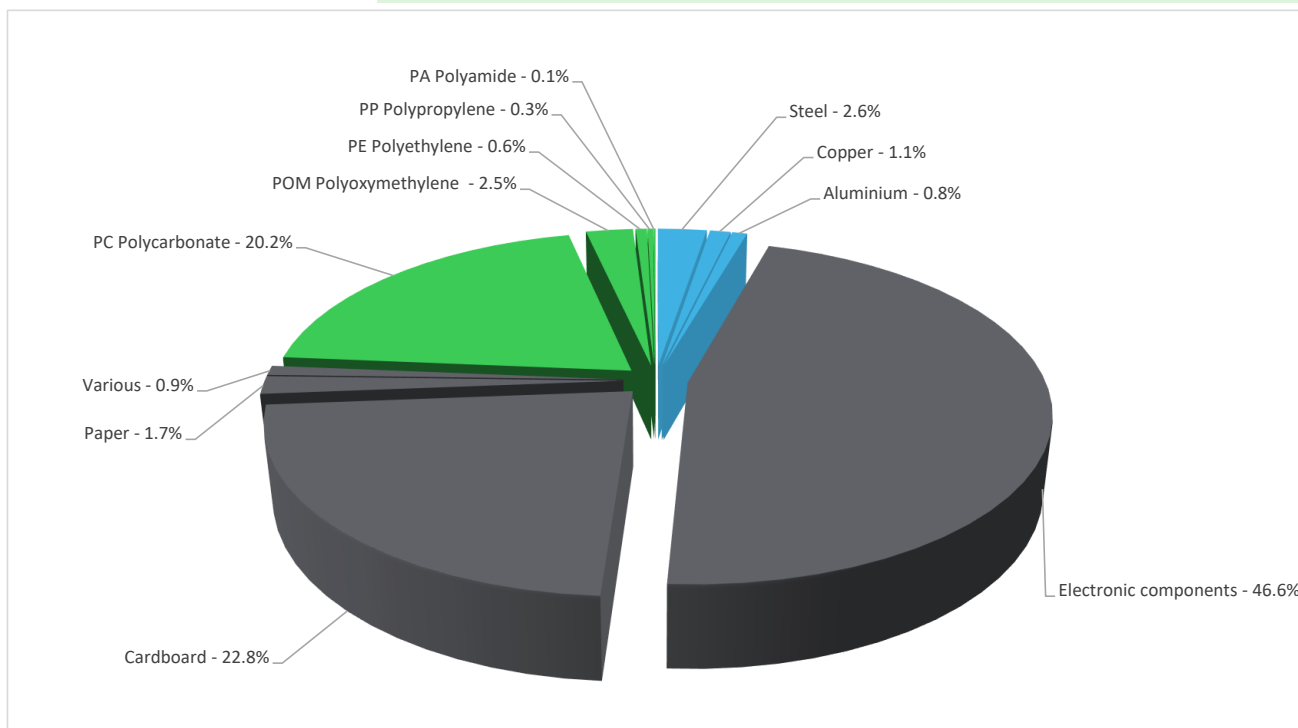
## General information

Reference product	PM5660 Residual current monitor meter - METSEPM5660
Description of the product	The main function of the PowerLogic PM5660 Panel-mount CI0.2 Power Meter is for measurement of 3-phase energy (import & export), Power (active, reactive, apparent), Voltage and Current, THD, Frequency, Residual Current, PF and other power measurement and quality parameters on its large 128x128 pixels LCD & intuitive navigation with 4 soft-buttons. The product has Ethernet and Serial communication modes, and on-board data logging capabilities.
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 products of the range are: PowerLogic PM5000 series
Functional unit	The main function of the PowerLogic PM5660 Panel-mount CI0.2 Power Meter is for measurement of 3-phase energy (import & export), Power (active, reactive, apparent), Voltage and Current, THD, Frequency, PF and other power measurement and display power consumption for 10 years.
Specifications are:	Supply voltage: 100...300 V DC, 90...528 V AC 45...65 Hz Type of network: 3P + N, 3P, 1P + N Maximum power consumption in VA: 16 VA at 480 V Measured Current: 50...10000 mA Measurement voltage: 20...400 V AC 45...65 Hz between phase and neutral, 20...828 V AC 45...65 Hz between phases Accuracy class: Class 0.2S active energy conforming to IEC 62053-22 IP degree of protection: IP54 display: conforming to IEC 60529, IP30 rear: conforming to IEC 60529 Standards: EN 50470-3, IEC 61557-12:2015, IEC 62053-22:2020, IEC 62053-24, IEC 60529, EN 50470-1, UL 61010-1, IEC 62053-23:2020, IEC 62052-11:2020, IEC 62052-31:2015 Product certifications: CE conforming to IEC 61010-1, CULus conforming to UL 61010-1



## Constituent materials

Reference product mass 660 g including the product, its packaging, additional elements and accessories



Plastics	23.7%
Metals	4.5%
Others	71.8%



## 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 any special installation operations. The installation process in the product installation manual. Just install the screws. The energy consumption during the installation process can be ignored. The screws are calculated in the BOM of 3. Nomenclature.		
Use scenario	The product is in active mode 100% of the time with a power use of 5W for 10 years. The total energy consumption of active parts is 438 (kWh) over 10 years.		
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	
	Bangalore, India	US, Europe, EAM & China	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; India, IN	No energy used	Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; Asia Pacific, APAC Electricity Mix; Low voltage; 2020; China, CN
			[C1 - C4]
			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		PM5660 Residual current monitor meter - METSEPM5660						
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	2.81E+02	3.27E+01	4.98E-01	2.91E-02	2.47E+02	1.43E+00	-1.05E-01
Contribution to climate change-fossil	kg CO2 eq	2.80E+02	3.29E+01	4.98E-01	2.91E-02	2.45E+02	1.43E+00	-1.03E-01
Contribution to climate change-biogenic	kg CO2 eq	1.59E+00	0*	0*	0*	1.82E+00	1.65E-04	-1.55E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.91E-04	1.91E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	6.76E-06	5.20E-06	3.85E-07	0*	1.17E-06	2.59E-09	-2.17E-08
Contribution to acidification	mol H+ eq	1.64E+00	1.60E-01	3.99E-03	0*	1.48E+00	1.17E-03	-1.64E-03
Contribution to eutrophication, freshwater	kg P eq	4.12E-04	1.21E-04	5.11E-08	0*	2.84E-04	7.16E-06	-1.95E-07
Contribution to eutrophication marine	kg N eq	1.87E-01	1.74E-02	1.29E-03	4.11E-05	1.68E-01	5.06E-04	-6.76E-05
Contribution to eutrophication, terrestrial	mol N eq	2.31E+00	1.91E-01	1.41E-02	4.25E-04	2.10E+00	5.24E-03	-7.84E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.17E-01	5.83E-02	4.25E-03	1.01E-04	5.53E-01	1.28E-03	-3.36E-04
Contribution to resource use, minerals and metals	kg Sb eq	6.26E-03	6.22E-03	0*	0*	4.09E-05	0*	-3.53E-05
Contribution to resource use, fossils	MJ	5.23E+03	3.78E+02	5.43E+00	0*	4.85E+03	2.33E+00	-2.12E+00
Contribution to water use	m3 eq	2.88E+01	1.41E+01	2.21E-02	1.70E-02	1.45E+01	5.53E-02	-9.37E-02

Inventory flows Indicators		PM5660 Residual current monitor meter - METSEPM5660						
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	7.25E+02	3.17E+01	0*	0*	6.93E+02	0*	-4.32E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	2.01E-01	2.01E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	7.25E+02	3.19E+01	0*	0*	6.93E+02	0*	-4.32E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.23E+03	3.69E+02	5.43E+00	0*	4.85E+03	2.33E+00	-2.12E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	8.46E+00	8.46E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	5.23E+03	3.78E+02	5.43E+00	0*	4.85E+03	2.33E+00	-2.12E+00
Contribution to use of secondary material	kg	1.72E-01	1.72E-01	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	6.68E-01	3.27E-01	5.15E-04	3.95E-04	3.39E-01	1.34E-03	-2.18E-03
Contribution to hazardous waste disposed	kg	1.01E+02	9.47E+01	0*	0*	6.41E+00	3.12E-01	-2.75E+00
Contribution to non hazardous waste disposed	kg	4.99E+01	8.93E+00	0*	1.72E-01	4.06E+01	2.05E-01	-6.34E-02
Contribution to radioactive waste disposed	kg	9.67E-03	3.82E-03	8.67E-05	0*	5.75E-03	9.83E-06	-2.95E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.57E-02	6.61E-03	0*	0*	0*	2.91E-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	3.15E-04	2.72E-05	0*	0*	0*	2.88E-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 4.68E-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%)

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 -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided 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-00497-V02.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed3-2023 12 08
Verifier accreditation N°	VH42	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	30/09/2025	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"			

Schneider Electric Industries SAS  
Country Customer Care Center  
<http://www.se.com/contact>  
Head Office  
35, rue Joseph Monier  
CS 30323  
F- 92500 Rueil Malmaison Cedex  
RCS Nanterre 954 503 439  
Capital social 928 298 512 €

[www.se.com](http://www.se.com)

SCHN-00497-V02.01-EN

Published by Schneider Electric

©2024 - Schneider Electric – All rights reserved

30/09/2025