

Product Environmental Profile

PM5580, PANEL MOUNT, LVDC AUX





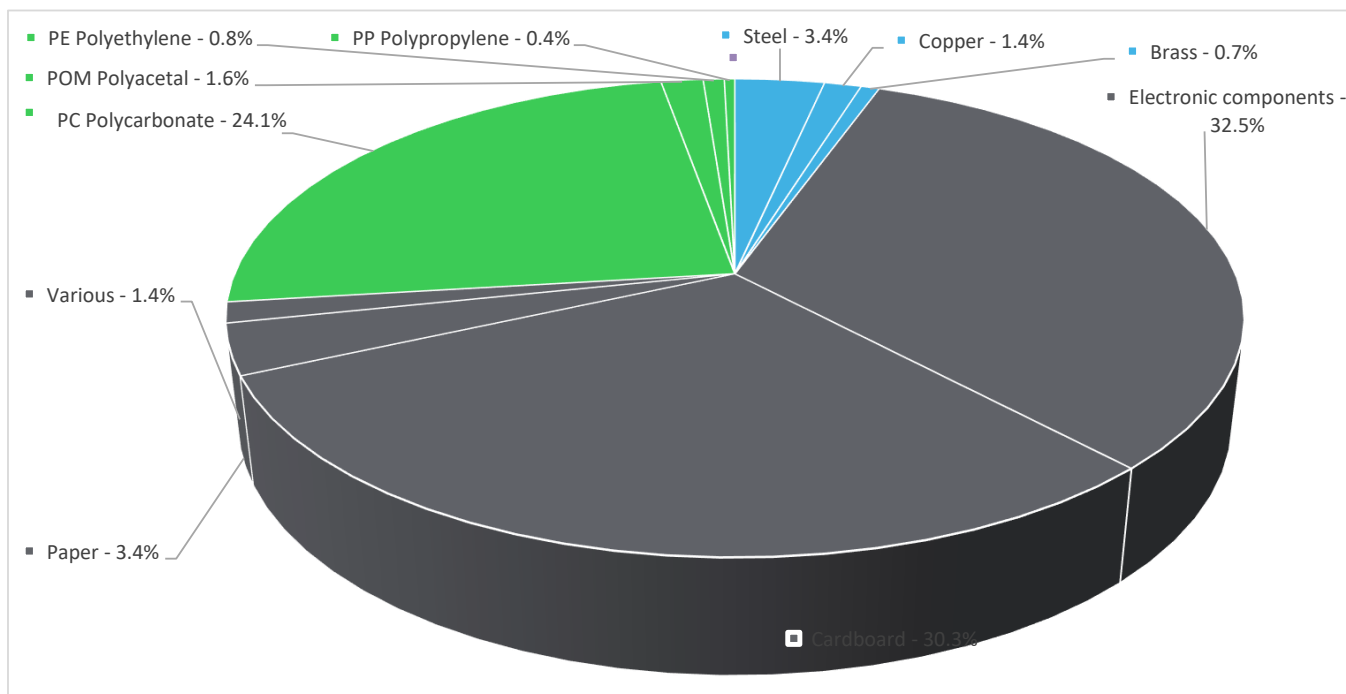
General information

Representative product	PM5580, PANEL MOUNT, LVDC AUX - METSEPM5580
Description of the product	The main function of the PowerLogic PM5580 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 quality parameters on its large 128x128 pixels LCD & intuitive navigation with 4 soft-buttons, while running on 20 to 60 V-DC control power. The product has Ethernet and Serial communication modes, and on-board data logging capabilities.
Functional unit	The main function of the PowerLogic PM5580 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



Constituent materials

Reference product mass	504 g including the product, its packaging and additional elements and accessories
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Plastics	26.9%
Metals	5.5%
Others	67.6%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

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

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>



Additional environmental information

The PM5580, PANEL MOUNT, LVDC AUX presents the following relevant environmental aspects

Design	Not in scope
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive
	Packaging weight is 173.7 g, consisting of Paper - 20.9%, Cardboard - 12.8%, Various - 1.4%, PC Polycarbonate - 24.1%, POM Polyacetal - 1.6%, PE Polyethylene - 0.8%, PP Polypropylene - 0.4%
Installation	The packaging is disposed of during the installation phase, there is no special installation process
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials
	This product contains Electronic Components (163.406 g) that should be separated from the stream of waste so as to optimize end-of-life treatment.
	The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page
Recyclability potential: 11%	Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

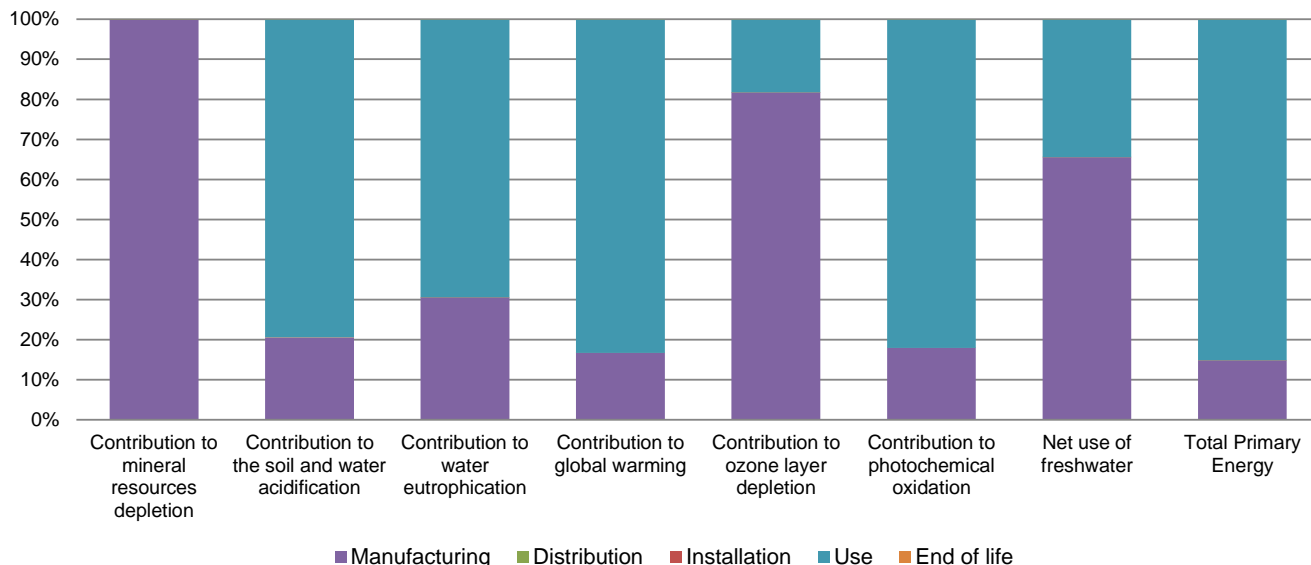


Environmental impacts

Reference life time	10 Years years			
Installation elements	No special components needed			
Use scenario	5W at 100% load 100% of the time for 10 years			
Geographical representativeness	Global			
Technological representativeness	The main function of the PowerLogic PM5580 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 quality parameters on its large 128x128 pixels LCD & intuitive navigation with 4 soft-buttons, while running on 20 to 60 V-DC control power. The product has Ethernet and Serial communication modes, and on-board data logging capabilities.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: SEPM, Bangalore-India.	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US

Compulsory indicators		PM5580, PANEL MOUNT, LVDC AUX - METSEPM5580					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.38E-03	4.38E-03	0*	0*	2.30E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	5.28E-01	1.09E-01	2.97E-04	0*	4.19E-01	1.81E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.59E-01	4.87E-02	6.84E-05	0*	1.10E-01	9.55E-05
Contribution to global warming	kg CO ₂ eq	4.78E+02	7.99E+01	6.50E-02	0*	3.98E+02	3.08E-01
Contribution to ozone layer depletion	kg CFC11 eq	2.30E-05	1.88E-05	0*	0*	4.20E-06	1.05E-08

Contribution to photochemical oxidation	kg C ₂ H ₄ eq	6.53E-02	1.17E-02	2.12E-05	0*	5.35E-02	1.44E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	1.48E+00	9.72E-01	0*	0*	5.10E-01	1.51E-04
Total Primary Energy	MJ	7.31E+03	1.08E+03	9.19E-01	0*	6.22E+03	7.55E-01



Optional indicators		PM5580, PANEL MOUNT, LVDC AUX - METSEPM5580					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6.70E+03	9.83E+02	9.14E-01	0*	5.72E+03	0*
Contribution to air pollution	m ³	4.61E+04	6.65E+03	0*	0*	3.94E+04	5.49E+00
Contribution to water pollution	m ³	2.69E+04	7.16E+03	1.07E+01	0*	1.98E+04	1.27E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.02E-02	2.02E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.47E+02	1.62E+01	0*	0*	3.31E+02	0*
Total use of non-renewable primary energy resources	MJ	6.96E+03	1.07E+03	9.18E-01	0*	5.89E+03	7.55E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.44E+02	1.29E+01	0*	0*	3.31E+02	0*
Use of renewable primary energy resources used as raw material	MJ	3.31E+00	3.31E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.95E+03	1.06E+03	9.18E-01	0*	5.89E+03	7.55E-01
Use of non renewable primary energy resources used as raw material	MJ	5.68E+00	5.68E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	7.36E+01	6.05E+01	0*	0*	1.23E+01	8.06E-01
Non hazardous waste disposed	kg	8.40E+01	1.47E+01	0*	0*	6.93E+01	0*
Radioactive waste disposed	kg	1.01E-02	6.73E-03	1.65E-06	0*	3.37E-03	5.21E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.39E-01	3.15E-02	0*	1.70E-01	0*	3.78E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	8.56E-02	0*	0*	0*	0*	8.56E-02
Exported Energy	MJ	5.35E-04	5.03E-05	0*	4.85E-04	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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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Date of issue	01/2020	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External <input checked="" type="checkbox"/>		
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2016			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



Schneider Electric Industries SAS
 Country Customer Care Center
<http://www.schneider-electric.com/contact>
 35, rue Joseph Monier
 CS 30323
 F- 92506 Rueil Malmaison Cedex
 RCS Nanterre 954 503 439
 Capital social 896 313 776 €

www.schneider-electric.com

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