

# Product Environmental Profile

## EASYLOGIC PM2130

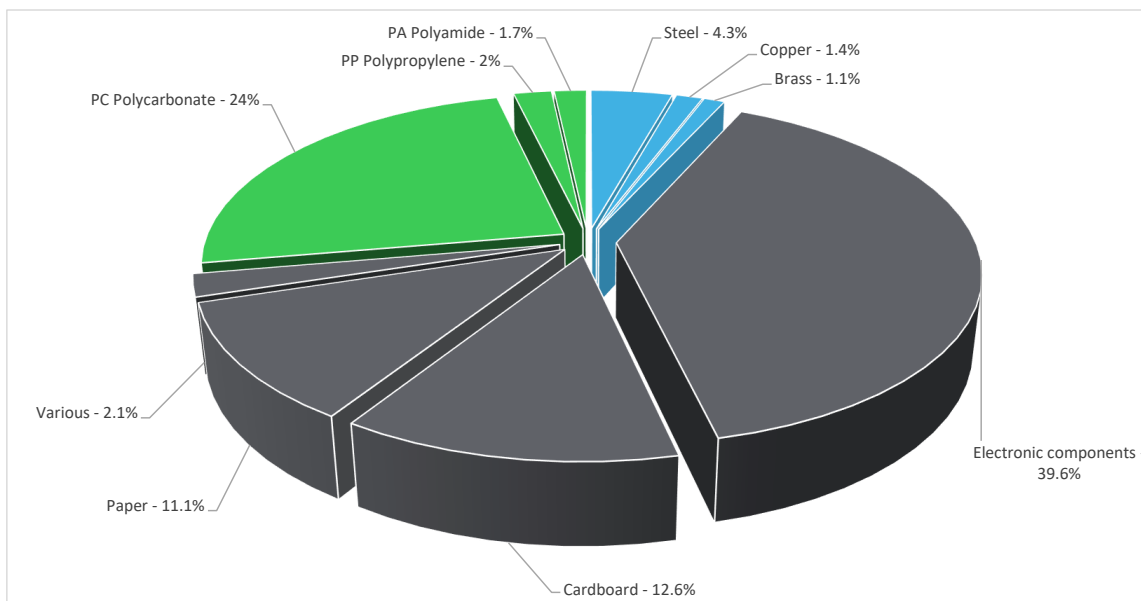


## General information

Reference product	EASYLOGIC PM2130 - METSEPM2130
Description of the product	<p>The functional unit consists of a power meter to measure Energy with analog &amp; digital output with 96mm by 96mm bezel size LED display for 7 years</p> <p>Reactive energy +/- 1 %                  Active power +/- 0.5 %                  Voltage +/- 0.5 %                  Power factor +/- 0.01                  Current +/- 0.5 %                  Frequency +/- 0.05 %</p> <p>It's IO modules can be added for extended functionality, including alarm configurations and monitoring capabilities. It is compatible with both 50Hz and 60Hz networks and supports either 1A or 5A input current and offers various wiring schemes for single-phase, two-phase, or three-phase configurations.</p>
Description of the range	Single product
Functional unit	<p>To consume electrical power, the conditions under which the product is implemented and used must be considered. The maximum power consumption is 8 VA at 277 V AC, with a line rated current of 1 A to 5 A and a network frequency of 50 Hz to 60 Hz.</p> <p>The electrical power consumed by the EasyLogic PM2000 range is as follows:                  In active mode 15% of the time, with a power use of 3.3W.                  In stand-by mode 65% of the time, with a power use of 2.1W.                  In sleep mode 20% of the time, with a power use of 1.2W.</p>
Specifications are:	<p>This device is a panel mount or flush mount power meter with a 96mm by 96mm bezel size having 3 rows of bright red 4 digits 14.2 mm LED display. The meter measures active energy as per accuracy class Class 0.5S complying to IEC61557-12, IEC 62053-22 standard with sampling rate of 64 samples per cycle. Able to measure all three vectors of power and energy such as Active, Apparent &amp; Reactive beside Voltages, Current, Frequency and Power Factor. Plus the total Harmonic Distortion and Individual harmonics up to 31st Harmonic order. The meter will function in either 50Hz or 60Hz network frequency and accepts universal control power voltages ranging from 80 to 300 V Line to Neutral AC or DC voltages. Rated current for this meter is either 1A or 5A input. it supports up to 13 different types of wiring schemes under Single Phase, Two Phase or Three Phase configuration types. The range of measurement voltage between Phases is 35 to 480 V Line to Line AC at 45 to 65 Hz while it is 20 to 277 V between Line and Neutral.</p>

## Constituent materials

Reference product mass 375 g including the product, its packaging, additional elements and accessories



Plastics	27.7%
Metals	6.8%
Others	65.4%

## 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:	9%	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).
-------------	--------------------------	----	--

## 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 and is not considered in the analysis		
Installation elements	The product does not require any installation operations		
Use scenario	The product is in active mode 15% of the time with a power use of 3.3W, in stand-by mode 65% of the time with a power use of 2.1W, and in sleep mode 20% of the time with a power use of 1.2W		
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	
	India	Europe, EU-27 United States, US Asia Pacific, APAC Australia, AU Bangladesh, BD	
Energy model used	[A1 - A3]	[A5]	[B6]
	Global, European and French datasets are used.	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 Bangladesh, BD
			[C1 - C4]
			Global

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		EASYLOGIC PM2130 - METSEPM2130						
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	1.57E+02	1.88E+01	2.28E-01	3.21E-02	1.37E+02	7.70E-01	-9.03E-02
Contribution to climate change-fossil	kg CO2 eq	1.56E+02	1.88E+01	2.28E-01	3.21E-02	1.36E+02	7.70E-01	-8.91E-02
Contribution to climate change-biogenic	kg CO2 eq	4.90E-01	0*	0*	0*	5.09E-01	1.38E-04	-1.19E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.37E-04	1.37E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.76E-06	2.95E-06	2.02E-07	0*	6.03E-07	1.86E-09	-1.81E-08
Contribution to acidification	mol H+ eq	9.32E-01	1.10E-01	9.93E-04	0*	8.20E-01	6.94E-04	-1.30E-03
Contribution to eutrophication, freshwater	kg P eq	1.02E-04	4.96E-05	2.68E-08	1.72E-08	4.92E-05	3.44E-06	-1.65E-07
Contribution to eutrophication marine	kg N eq	1.05E-01	1.10E-02	4.56E-04	2.29E-05	9.30E-02	2.77E-04	-5.74E-05
Contribution to eutrophication, terrestrial	mol N eq	1.22E+00	1.23E-01	4.94E-03	2.42E-04	1.09E+00	2.91E-03	-6.66E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.50E-01	3.82E-02	1.62E-03	5.64E-05	3.09E-01	7.17E-04	-2.79E-04
Contribution to resource use, minerals and metals	kg Sb eq	2.75E-03	2.74E-03	0*	0*	1.40E-05	0*	-3.01E-05
Contribution to resource use, fossils	MJ	2.57E+03	2.84E+02	2.84E+00	0*	2.28E+03	1.45E+00	-1.85E+00
Contribution to water use	m3 eq	1.35E+01	6.69E+00	1.16E-02	1.06E-02	6.77E+00	3.49E-02	-7.53E-02

Inventory flows Indicators		EASYLOGIC PM2130 - METSEPM2130						
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	2.25E+02	2.18E+01	0*	0*	2.03E+02	3.44E-02	-3.45E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	2.02E+00	2.02E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	2.27E+02	2.38E+01	0*	0*	2.03E+02	3.44E-02	-3.45E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.56E+03	2.79E+02	2.84E+00	0*	2.28E+03	1.45E+00	-1.85E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.74E+00	5.74E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.57E+03	2.84E+02	2.84E+00	0*	2.28E+03	1.45E+00	-1.85E+00
Contribution to use of secondary material	kg	0.00E+00	0.00E+00	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	3.14E-01	1.55E-01	2.70E-04	2.48E-04	1.58E-01	8.54E-04	-1.75E-03
Contribution to hazardous waste disposed	kg	4.12E+01	3.79E+01	0*	0*	3.20E+00	1.48E-01	-2.34E+00
Contribution to non hazardous waste disposed	kg	4.68E+01	2.48E+01	0*	9.85E-02	2.18E+01	1.40E-01	-5.68E-02
Contribution to radioactive waste disposed	kg	1.99E-02	1.69E-02	4.54E-05	0*	3.00E-03	6.43E-06	-2.63E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.96E-02	4.76E-03	0*	0*	0*	2.48E-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	2.84E-04	3.84E-05	0*	0*	0*	2.46E-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	2.89E-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		EASYLOGIC PM2130 - METSEPM2130								
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]	
Contribution to climate change	kg CO2 eq	1.37E+02	0*	0*	0*	0*	0*	1.37E+02	0*	
Contribution to climate change-fossil	kg CO2 eq	1.36E+02	0*	0*	0*	0*	0*	1.36E+02	0*	
Contribution to climate change-biogenic	kg CO2 eq	5.09E-01	0*	0*	0*	0*	0*	5.09E-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	6.03E-07	0*	0*	0*	0*	0*	6.03E-07	0*	
Contribution to acidification	mol H+ eq	8.20E-01	0*	0*	0*	0*	0*	8.20E-01	0*	
Contribution to eutrophication, freshwater	kg P eq	4.92E-05	0*	0*	0*	0*	0*	4.92E-05	0*	
Contribution to eutrophication marine	kg N eq	9.30E-02	0*	0*	0*	0*	0*	9.30E-02	0*	
Contribution to eutrophication, terrestrial	mol N eq	1.09E+00	0*	0*	0*	0*	0*	1.09E+00	0*	
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.09E-01	0*	0*	0*	0*	0*	3.09E-01	0*	
Contribution to resource use, minerals and metals	kg Sb eq	1.40E-05	0*	0*	0*	0*	0*	1.40E-05	0*	
Contribution to resource use, fossils	MJ	2.28E+03	0*	0*	0*	0*	0*	2.28E+03	0*	
Contribution to water use	m3 eq	6.77E+00	0*	0*	0*	0*	0*	6.77E+00	0*	

Inventory flows Indicators		EASYLOGIC PM2130 - METSEPM2130								
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	2.03E+02	0*	0*	0*	0*	0*	2.03E+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	2.03E+02	0*	0*	0*	0*	0*	2.03E+02	0*	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.28E+03	0*	0*	0*	0*	0*	2.28E+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	2.28E+03	0*	0*	0*	0*	0*	2.28E+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	1.58E-01	0*	0*	0*	0*	0*	1.58E-01	0*	
Contribution to hazardous waste disposed	kg	3.20E+00	0*	0*	0*	0*	0*	3.20E+00	0*	
Contribution to non hazardous waste disposed	kg	2.18E+01	0*	0*	0*	0*	0*	2.18E+01	0*	
Contribution to radioactive waste disposed	kg	3.00E-03	0*	0*	0*	0*	0*	3.00E-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 -1/1 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.

Registration number :	SCHN-02022-V01.01-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0005-ed3-EN-2023 06 06
Verifier accreditation N°	VH42	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	05-2025	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)

Published by Schneider Electric