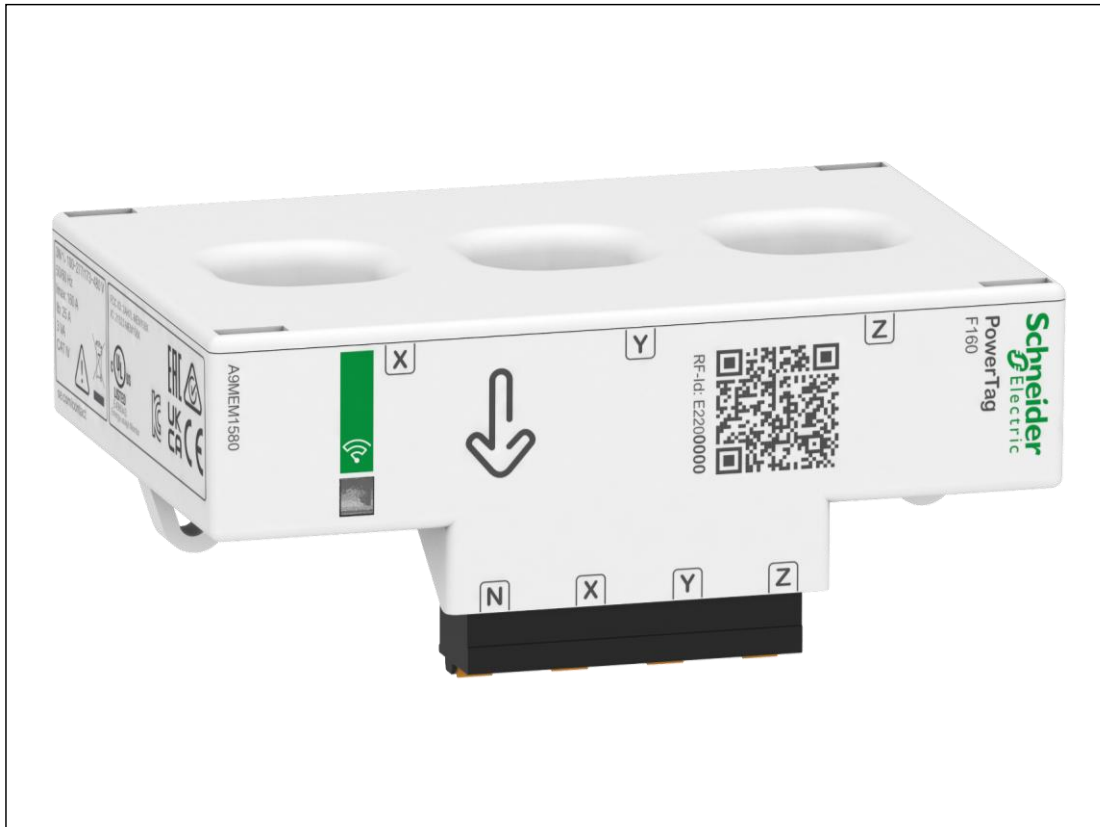


# Product Environmental Profile

## PowerTag Flex 160A 3P/3P+N

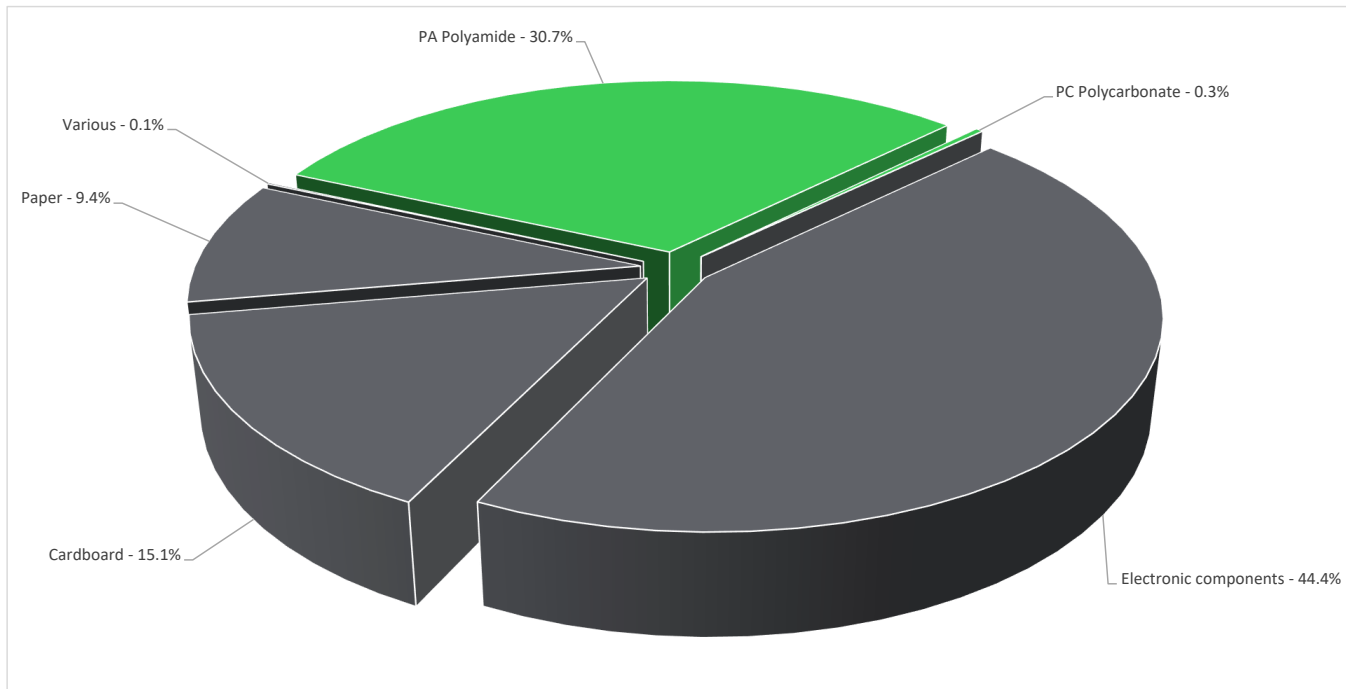


## General information

Reference product	PowerTag Flex 160A 3P/3P+N - A9MEM1580
Description of the product	The PowerTag F160 is a wireless energy sensor, used to measure and manage energy consumption.
Description of the range	Single product
Functional unit	The PowerTag F160 is able to measure currents up to 160A and voltage from 100Vac to 480Vac, so that it can calculate Power, Energy etc. and send those values through wireless communication to a concentrator in accordance to the reference usage scenario and during a reference service life of 10 years. It complies with energy measurement standard IEC 61557-12. It is a PMD-II/DD/K70/1.
Specifications are:	Rated voltage: 100/173 ... 277/480 VAC ± 20 % Total active power (Device measuring Range): 24 W (8 W) to 192 kW Maximum current [Imax]: 160 A Maximum consumption: 3VA IP20 & IK05 degree of protection in accordance with the standard IEC 60529.

## Constituent materials

Reference product mass 136 g including the product and its packaging



## Substance assessment

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

<https://www.se.com>

## Additional environmental information

<b>End Of Life</b>	Recyclability potential:	<b>0%</b>	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

<b>Reference service life time</b>	10 years		
<b>Product category</b>	Other equipments - Active product		
<b>Life cycle of the product</b>	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study		
<b>Electricity consumption</b>	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption		
<b>Installation elements</b>	The product does not require any installation operations and only packaging disposal was considered		
<b>Use scenario</b>	The product is in active mode 100% of the time with a power use of 0.5W for 10 years.		
<b>Time representativeness</b>	The collected data are representative of the year 2025		
<b>Technological representativeness</b>	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.		
<b>Geographical representativeness</b>	<b>Final assembly site</b>	<b>Use phase</b>	
	Lexel, Riga, Latvia	Global	
<b>Energy model used</b>	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Europe, EU-27	No energy used	[C1 - C4]
			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
Electricity Mix; Low voltage; 2020; Algeria, DZ			
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		PowerTag Flex 160A 3P/3P+N - A9MEM1580						
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	2.54E+01	4.90E+00	7.95E-02	3.48E-02	2.01E+01	2.94E-01	0.00E+00
Contribution to climate change-fossil	kg CO2 eq	2.51E+01	4.93E+00	7.95E-02	1.10E-02	1.98E+01	2.94E-01	0.00E+00
Contribution to climate change-biogenic	kg CO2 eq	3.37E-01	-2.37E-02	0*	2.37E-02	3.37E-01	0*	0.00E+00
Contribution to climate change-land use and land use change	kg CO2 eq	2.96E-06	2.96E-06	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.03E-06	8.66E-07	7.03E-08	3.96E-10	9.01E-08	2.40E-10	0.00E+00
Contribution to acidification	mol H+ eq	1.39E-01	2.63E-02	3.46E-04	6.66E-05	1.12E-01	1.97E-04	0.00E+00
Contribution to eutrophication, freshwater	kg P eq	1.39E-04	1.01E-04	0*	0*	3.68E-05	1.33E-06	0.00E+00
Contribution to eutrophication marine	kg N eq	1.69E-02	3.68E-03	1.59E-04	1.68E-05	1.29E-02	9.60E-05	0.00E+00
Contribution to eutrophication, terrestrial	mol N eq	2.34E-01	4.19E-02	1.72E-03	2.21E-04	1.90E-01	9.98E-04	0.00E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.46E-02	1.22E-02	5.65E-04	4.70E-05	4.16E-02	2.41E-04	0.00E+00
Contribution to resource use, minerals and metals	kg Sb eq	7.91E-04	7.86E-04	0*	0*	5.43E-06	0*	0.00E+00
Contribution to resource use, fossils	MJ	5.07E+02	6.35E+01	9.91E-01	2.04E-01	4.42E+02	3.62E-01	0.00E+00
Contribution to water use	m3 eq	3.44E+00	2.00E+00	4.04E-03	6.35E-04	1.43E+00	1.17E-02	0.00E+00

Inventory flows Indicators		PowerTag Flex 160A 3P/3P+N - A9MEM1580						
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	9.79E+01	6.31E+00	0*	1.76E-02	9.15E+01	0*	0.00E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	5.84E-01	5.84E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	9.85E+01	6.90E+00	0*	1.76E-02	9.15E+01	0*	0.00E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.05E+02	6.15E+01	9.91E-01	2.04E-01	4.42E+02	3.62E-01	0.00E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.01E+00	2.01E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	5.07E+02	6.35E+01	9.91E-01	2.04E-01	4.42E+02	3.62E-01	0.00E+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	8.00E-02	4.63E-02	9.41E-05	1.45E-05	3.33E-02	2.72E-04	0.00E+00
Contribution to hazardous waste disposed	kg	1.11E+01	1.05E+01	0*	1.20E-02	5.49E-01	5.88E-02	0.00E+00
Contribution to non hazardous waste disposed	kg	4.15E+00	9.66E-01	0*	1.46E-03	3.14E+00	4.48E-02	0.00E+00
Contribution to radioactive waste disposed	kg	1.15E-03	5.14E-04	1.58E-05	6.07E-07	6.13E-04	2.01E-06	0.00E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.99E-03	3.99E-03	0*	0*	0*	0*	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	2.33E-06	2.33E-06	0*	0*	0*	0*	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	1.03E-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		PowerTag Flex 160A 3P/3P+N - A9MEM1580							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	2.01E+01	0*	0*	0*	0*	0*	2.01E+01	0*
Contribution to climate change-fossil	kg CO2 eq	1.98E+01	0*	0*	0*	0*	0*	1.98E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	3.37E-01	0*	0*	0*	0*	0*	3.37E-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	9.01E-08	0*	0*	0*	0*	0*	9.01E-08	0*
Contribution to acidification	mol H+ eq	1.12E-01	0*	0*	0*	0*	0*	1.12E-01	0*
Contribution to eutrophication, freshwater	kg P eq	3.68E-05	0*	0*	0*	0*	0*	3.68E-05	0*
Contribution to eutrophication marine	kg N eq	1.29E-02	0*	0*	0*	0*	0*	1.29E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	1.90E-01	0*	0*	0*	0*	0*	1.90E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.16E-02	0*	0*	0*	0*	0*	4.16E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	5.43E-06	0*	0*	0*	0*	0*	5.43E-06	0*
Contribution to resource use, fossils	MJ	4.42E+02	0*	0*	0*	0*	0*	4.42E+02	0*
Contribution to water use	m3 eq	1.43E+00	0*	0*	0*	0*	0*	1.43E+00	0*

Inventory flows Indicators		PowerTag Flex 160A 3P/3P+N - A9MEM1580								
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	9.15E+01	0*	0*	0*	0*	0*	9.15E+01	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	9.15E+01	0*	0*	0*	0*	0*	9.15E+01	0*	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.42E+02	0*	0*	0*	0*	0*	4.42E+02	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	4.42E+02	0*	0*	0*	0*	0*	4.42E+02	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	3.33E-02	0*	0*	0*	0*	0*	3.33E-02	0*	
Contribution to hazardous waste disposed	kg	5.49E-01	0*	0*	0*	0*	0*	5.49E-01	0*	
Contribution to non hazardous waste disposed	kg	3.14E+00	0*	0*	0*	0*	0*	3.14E+00	0*	
Contribution to radioactive waste disposed	kg	6.13E-04	0*	0*	0*	0*	0*	6.13E-04	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 v6.3.4, database version 2025-04 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-00578-V02.01-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	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	05-2026	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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