

# Product Environmental Profile

## PowerTag Acti9





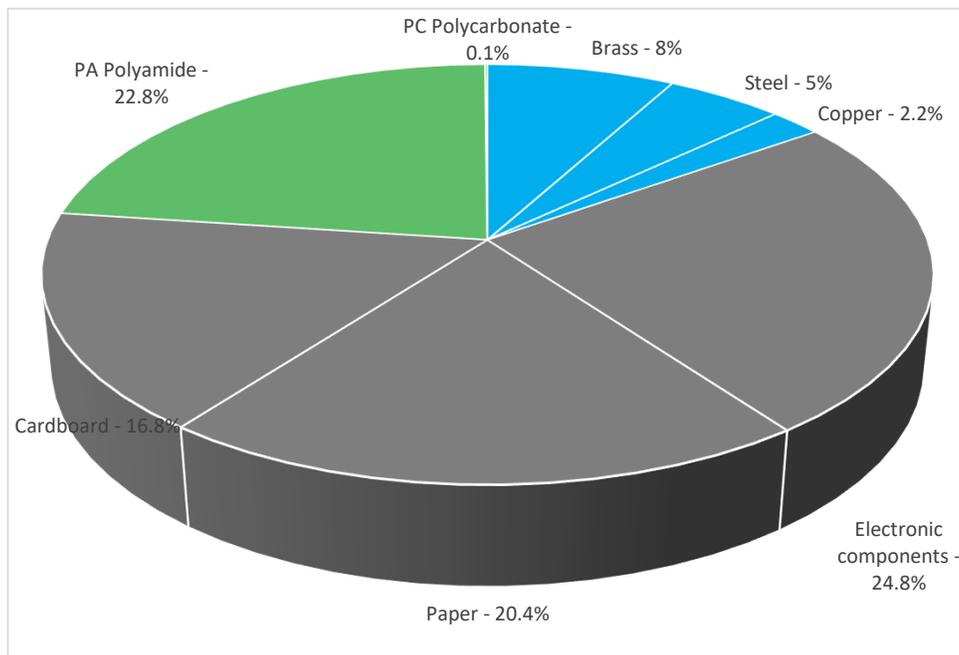
## General information

Representative product	PowerTag Acti9 - A9MEM1571
Description of the product	The PowerTag Acti9 A9MEM1571 consist of: wireless energy meter 3 pole + N to get information about energy consumption on breaker. The dimension is 71x27x42.
Functional unit	WIRELESS ENERGY METER Monitoring remotely final loads to get information about energy consumption during 10 years



## Constituent materials

Reference product mass 70 g including the product, its packaging and additional elements and accessories



Plastics	22.9%
Metals	15.2%
Others	62.0%



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) 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 PowerTag Acti9 presents the following relevant environmental aspects

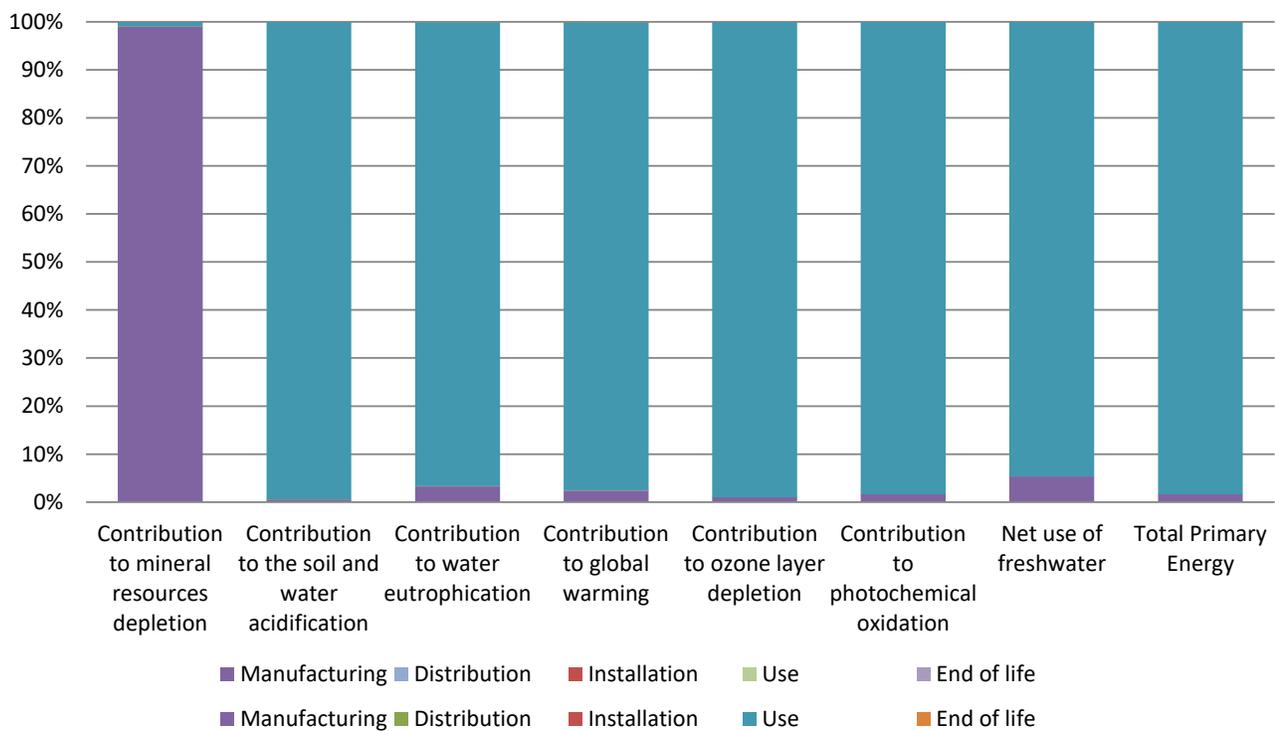
<b>Design</b>	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 25.5 g, consisting of cardboard (46.34%), Paper (53.65%)  Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Ref A9MEM1571 does not require any installation operations. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal).
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains Electronic components: - 16.97g 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 <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>25%</b> 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

<b>Reference life time</b>	10 years			
<b>Product category</b>	Other equipments - Active product			
<b>Installation elements</b>	Ref A9MEM1571 does not require any special component for the installation operations. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal).			
<b>Use scenario</b>	The product have a power use of 1 W full time for 10 years			
<b>Geographical representativeness</b>	Global			
<b>Technological representativeness</b>	The PowerTag Acti9 A9MEM1571 consist of: wireless energy meter 3 pole + N to get information about energy consumption on breaker. The dimension is 71x27x42.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Riga / Latvia	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		NAME OF THE PRODUCT - Powertag Acti9					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.61E-04	2.58E-04	0*	0*	2.36E-06	0*
Contribution to the soil and water acidification	kg SO2 eq	3.93E-01	2.11E-03	4.12E-05	0*	3.91E-01	0*
Contribution to water eutrophication	kg PO43- eq	1.52E-02	4.98E-04	9.50E-06	0*	1.47E-02	9.81E-06
Contribution to global warming	kg CO2 eq	5.31E+01	1.29E+00	9.03E-03	0*	5.17E+01	3.02E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.27E-05	1.30E-07	0*	0*	1.26E-05	0*
Contribution to photochemical oxidation	kg C2H4 eq	1.88E-02	3.04E-04	2.94E-06	0*	1.85E-02	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.43E-01	7.66E-03	0*	0*	1.35E-01	1.56E-05
Total Primary Energy	MJ	1.07E+03	1.72E+01	1.28E-01	0*	1.05E+03	0*



Optional indicators	NAME OF THE PRODUCT - PowerTag Acti9						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	5.44E+02	1.11E+01	1.27E-01	0*	5.33E+02	7.21E-02
Contribution to air pollution	m <sup>3</sup>	2.40E+03	1.77E+02	3.84E-01	0*	2.22E+03	6.40E-01
Contribution to water pollution	m <sup>3</sup>	2.36E+03	1.86E+02	1.49E+00	0*	2.17E+03	1.33E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.45E-03	1.45E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	7.55E+01	5.58E-01	0*	0*	7.50E+01	0*
Total use of non-renewable primary energy resources	MJ	9.90E+02	1.66E+01	1.28E-01	0*	9.73E+02	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.51E+01	1.09E-01	0*	0*	7.50E+01	0*
Use of renewable primary energy resources used as raw material	MJ	4.49E-01	4.49E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.89E+02	1.60E+01	1.28E-01	0*	9.73E+02	0*
Use of non renewable primary energy resources used as raw material	MJ	5.99E-01	5.99E-01	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	1.45E+00	1.36E+00	0*	0*	0*	9.24E-02
Non hazardous waste disposed	kg	1.94E+02	5.82E-01	0*	0*	1.93E+02	0*
Radioactive waste disposed	kg	1.58E-01	2.07E-04	0*	0*	1.58E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.12E-02	5.09E-03	0*	2.54E-02	0*	1.07E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	8.08E-03	0*	0*	0*	0*	8.08E-03
Exported Energy	MJ	8.03E-05	7.28E-06	0*	7.30E-05	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, 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.

Registration number :	SCHN-00762-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH32	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	01/22	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal                      External

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 »



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