

Product Environmental Profile

PowerTag Ambient for Temperature (set of 4)





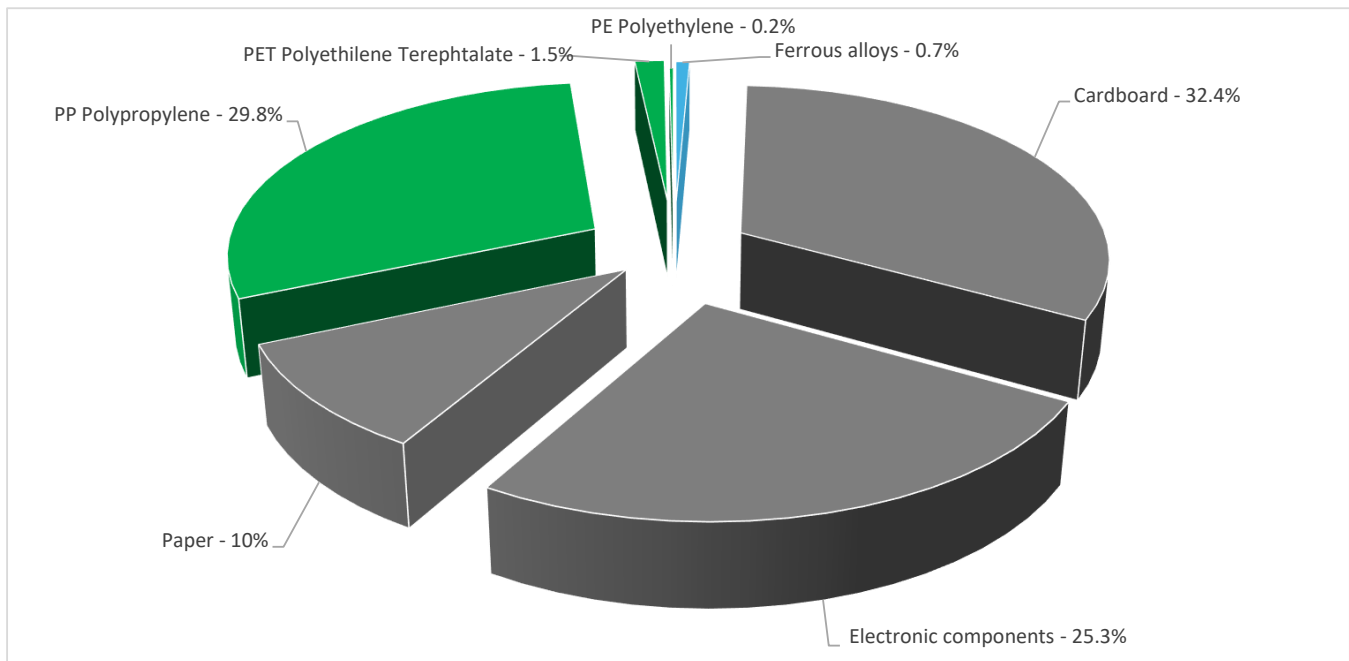
General information

Representative product	PowerTag Ambient for Temperature (set of 4) - A9XST114
Description of the product	PowerTag Ambient for Temperature are four wireless-communication modules designed specifically to collect temperatures measures for Monitoring applications.
Functional unit	To monitor environment temperature by charge power from four batteries 3V d.c, BR1632A, for 2 year. The function unit is accordance with the following technical data : -IP65 -Operating frequency: 2.405 GHz -Maximum output power:4 dBm



Constituent materials

Reference product mass	105.8 g including the product, its packaging and additional elements and accessories
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Plastics	31.5%
Metals	0.7%
Others	67.7%



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

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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

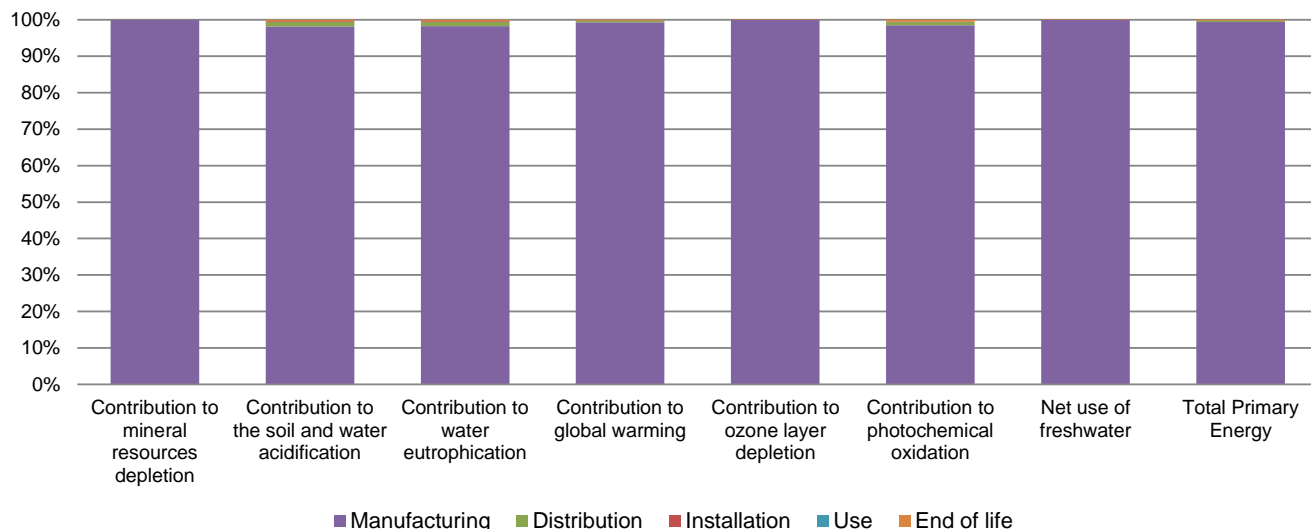
The PowerTag Ambient for Temperature (set of 4) presents the following relevant environmental aspects

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 45.8 g, consisting of cardboard (76.0%), paper (23.4%), PE(0.6%)
Installation	Reference A9XST114 does not require any installation operations. Packaging waste is considered in installation.
Use	The product does not require special maintenance operations.
End of life	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains four batteries (4g) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>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</p> <p>Recyclability potential: 52% 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).</p>

Environmental impacts

Reference life time	2 years			
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.			
Use scenario	The four sensors are in active mode 100% of the time with a power use of 28µW, for 2 years.			
Geographical representativeness	Europe			
Technological representativeness	PowerTag Ambient for Temperature are four wireless-communication modules designed specifically to collect temperatures measures for Monitoring applications.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Italy	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Not applicable	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		PowerTag Ambient for Temperature (set of 4) - A9XST114					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.25E-03	1.25E-03	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	5.20E-03	5.11E-03	6.23E-05	1.04E-05	0*	2.06E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.25E-03	1.23E-03	1.44E-05	2.59E-06	0*	5.10E-06
Contribution to global warming	kg CO ₂ eq	3.38E+00	3.36E+00	1.37E-02	2.49E-03	0*	7.89E-03
Contribution to ozone layer depletion	kg CFC11 eq	1.14E-06	1.14E-06	0*	0*	0*	6.43E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	5.02E-04	4.95E-04	4.45E-06	7.74E-07	0*	2.25E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	3.26E-02	3.26E-02	0*	0*	0*	1.06E-05
Total Primary Energy	MJ	5.17E+01	5.13E+01	1.93E-01	3.25E-02	0*	1.08E-01



Optional indicators		PowerTag Ambient for Temperature (set of 4) - A9XST114					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.56E+01	1.53E+01	1.92E-01	3.22E-02	0*	8.39E-02
Contribution to air pollution	m³	1.93E+02	1.91E+02	5.81E-01	1.01E-01	0*	8.49E-01
Contribution to water pollution	m³	2.61E+02	2.57E+02	2.24E+00	3.77E-01	0*	7.81E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.73E-04	4.73E-04	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.62E+00	2.62E+00	0*	0*	0*	0*
Total use of non-renewable primary energy resources	MJ	4.90E+01	4.87E+01	1.93E-01	3.24E-02	0*	1.08E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.75E+00	1.75E+00	2.57E-04	0*	0*	0*
Use of renewable primary energy resources used as raw material	MJ	8.74E-01	8.74E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.73E+01	4.70E+01	1.93E-01	3.24E-02	0*	1.08E-01
Use of non renewable primary energy resources used as raw material	MJ	1.74E+00	1.74E+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	1.86E+00	1.77E+00	0*	0*	0*	9.57E-02
Non hazardous waste disposed	kg	1.51E+00	1.51E+00	4.85E-04	5.22E-04	0*	9.21E-04
Radioactive waste disposed	kg	9.54E-03	9.54E-03	0*	0*	0*	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	8.43E-02	7.79E-03	0*	4.47E-02	0*	3.19E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3.20E-04	0*	0*	0*	0*	3.20E-04
Exported Energy	MJ	1.42E-04	1.33E-05	0*	1.28E-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 manufacturing 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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<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal	External	X	
<i>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</i>			
<i>PEP are compliant with XP C08-100-1 :2014</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			



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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