# Product Environmental Profile

## PowerTag Acti9

# General information

| | |
|---|---|
| **Representative product** | PowerTag Acti9 -A9MEM1541 |
| **Description of the product** | The PowerTag Acti9 A9MEM1541 consist of: wireless energy meter 3 pole + N to get information about energy consumption on breaker. The dimension is 71x27x42. |

# Constituent materials

| | | |
|---|---|---|
| **Reference product mass** | 64 g | including the product, its packaging and additional elements and accessories |

# 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

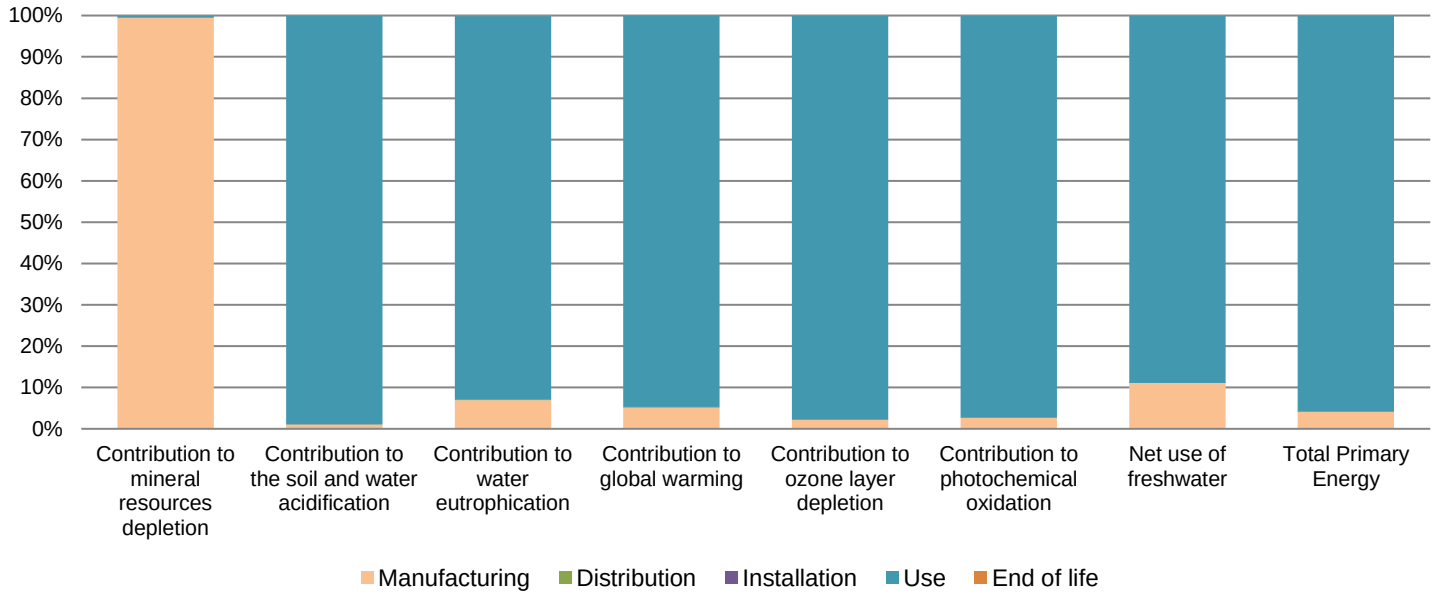
| The PowerTag Acti9 presents the following relevent environmental aspects | |
|---|---|
| **Manufacturing** | Manufactured at a Schneider Electric production site ISO14001 certified |
| **Distribution** | Weight and volume of the packaging optimized, based on the European Union's packaging directive<br>Packaging weight is 15 g, consisting of cardboard (63%), Paper (37%)<br>Product distribution optimised by setting up local distribution centres |
| **Installation** | Ref A9MEM1541 does not require any installation operations. |
| **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<br><br>This product contains 2 Electronic card: - PCB acuisition 9g and PCB Power 5,3g that should be separated from the stream of waste so as to optimize end-of-life treatment.<br>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<br>http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page<br><br>Recyclability potential: **33%** (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME). |

# Environmental impacts

| | | | | |
|---|---|---|---|---|
| **Reference life time** | 10 years | | | |
| **Installation elements** | No special components needed | | | |
| **Use scenario** | The product have a power use of 0,5 W full time for 10 years | | | |
| **Geographical representativeness** | France | | | |
| **Technological representativeness** | The PowerTag Acti9 A9MEM1541 consist of: wireless energy meter 3 pole + N to get information about energy consumption on breaker. The dimension is 71x27x42. | | | |
| **Energy model used** | **Manufacturing** | **Installation** | **Use** | **End of life** |
| | Energy model used: France | 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 |

| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
|---|---|---|---|---|---|---|---|
| Contribution to mineral resources depletion | kg Sb eq | 2,64E-04 | 2,63E-04 | 0* | 0* | 1,18E-06 | 0* |
| Contribution to the soil and water acidification | kg $SO_2$ eq | 1,98E-01 | 2,09E-03 | 3,77E-05 | 0* | 1,96E-01 | 2,07E-05 |
| Contribution to water eutrophication | kg $PO_4^{3-}$ eq | 7,90E-03 | 5,50E-04 | 8,68E-06 | 1,07E-06 | 7,33E-03 | 7,99E-06 |
| Contribution to global warming | kg $CO_2$ eq | 2,73E+01 | 1,43E+00 | 8,26E-03 | 0* | 2,59E+01 | 2,13E-02 |
| Contribution to ozone layer depletion | kg CFC11 eq | 6,43E-06 | 1,48E-07 | 0* | 0* | 6,28E-06 | 1,10E-09 |
| Contribution to photochemical oxidation | kg $C_2H_4$ eq | 9,51E-03 | 2,59E-04 | 2,69E-06 | 0* | 9,24E-03 | 1,86E-06 |

| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
|---|---|---|---|---|---|---|---|
| Net use of freshwater | m3 | 7,59E-02 | 8,40E-03 | 0* | 0* | 6,75E-02 | 1,30E-05 |
| Total Primary Energy | MJ | 5,47E+02 | 2,28E+01 | 1,17E-01 | 0* | 5,24E+02 | 1,06E-01 |




| Optional indicators | PowerTag Acti9 - A9MEM1541 | | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to fossil resources depletion | MJ | 2,84E+02 | 1,71E+01 | 1,16E-01 | 0* | 2,66E+02 | 8,85E-02 |
| Contribution to air pollution | m³ | 1,27E+03 | 1,62E+02 | 3,51E-01 | 1,59E-01 | 1,11E+03 | 6,58E-01 |
| Contribution to water pollution | m³ | 1,22E+03 | 1,31E+02 | 1,36E+00 | 1,70E-01 | 1,09E+03 | 1,14E+00 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 1,50E-03 | 1,50E-03 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 3,80E+01 | 5,16E-01 | 0* | 0* | 3,75E+01 | 0* |
| Total use of non-renewable primary energy resources | MJ | 5,09E+02 | 2,23E+01 | 1,17E-01 | 0* | 4,86E+02 | 1,06E-01 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 3,77E+01 | 2,24E-01 | 0* | 0* | 3,75E+01 | 0* |
| Use of renewable primary energy resources used as raw material | MJ | 2,93E-01 | 2,93E-01 | 0* | 0* | 0* | 0* |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 5,08E+02 | 2,17E+01 | 1,17E-01 | 0* | 4,86E+02 | 1,06E-01 |
| Use of non renewable primary energy resources used as raw material | MJ | 6,22E-01 | 6,22E-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 | 1,95E+00 | 1,82E+00 | 0* | 3,01E-02 | 0* | 9,77E-02 |
| Non hazardous waste disposed | kg | 9,73E+01 | 5,28E-01 | 0* | 0* | 9,67E+01 | 0* |
| Radioactive waste disposed | kg | 7,90E-02 | 1,49E-04 | 0* | 0* | 7,89E-02 | 0* |
| **Other environmental information** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 1,74E-02 | 1,79E-03 | 0* | 0* | 0* | 1,56E-02 |
| Components for reuse | kg | 0,00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 5,08E-03 | 1,18E-04 | 0* | 0* | 0* | 4,96E-03 |
| Exported Energy | MJ | 0,00E+00 | 0* | 0* | 0* | 0* | 0* |

*Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.*

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 N°*

*Drafting rules* PCR-ed3-EN-2015 04 02

*Date of issue* 05-2016

*Information and reference documents* www.pep-ecopassport.org

*Validity period* 5 years

Internal External X

*The PCR review was conducted by a panc[illegible]*

*Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »*

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