Product Environmental Profile

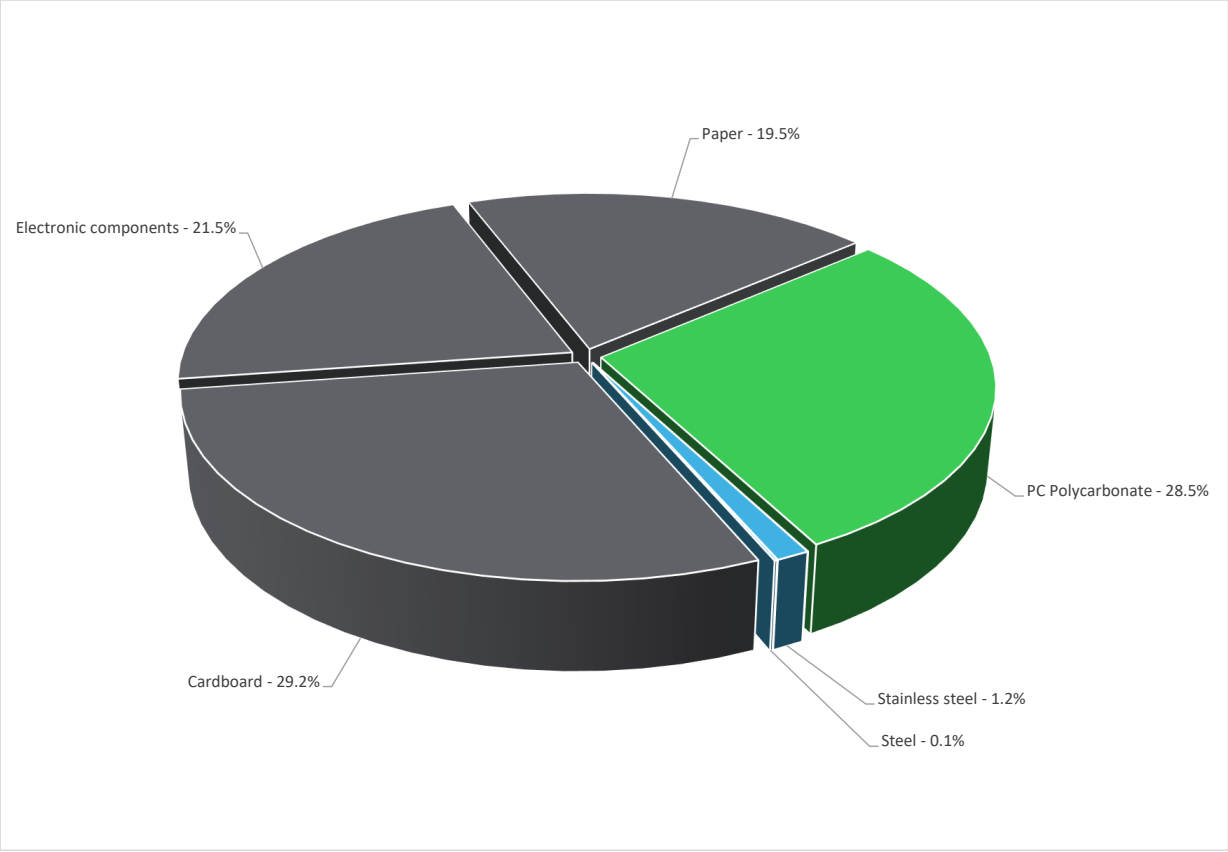
WISER SMOKE ALARM

General information

Reference product	WISER smoke alarm, battery, ZigBee + RF (868 MHz) - CCT599001
Description of the product	High-end connected smoke alarm for global markets which can be integrated into the WISER system and also support temperature alarming and have the interconnection between devices even without gateway. The material constituents of the packaging are cardboard (60%) and paper (40%).
Description of the range	Single product
Functional unit	To provide high level alarming to notify people when device detect smoke in the located area, to support temperature detection and provide alarming if temperature is higher than its threshold during 10 years and 99.999% use rate, in accordance with EN 14604
Specifications are:	Standby = 20µA Active = 100mA

Constituent materials

Reference product mass	327.3 g	including the product, its packaging



	Others	70.2%
	Plastics	28.5%
	Metals	1.3%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**3%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database, the ESR 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
Installation elements	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).
Use scenario	The product is in standby mode 99.999% of the time with a power use of 0.00006w and in active mode 0.001% of the time with a power use of 0.3W
Time representativeness	The collected data are representative of the year 2023
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 représentaive of the actual type of technologies used to make the product.
Geographical representativeness	Rest of the World

Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; High voltage; 2018; China, CN	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27 Electricity Mix; Low voltage; 2018; Australia, AU	Electricity Mix; Low voltage; 2018; Europe, EU-27 Electricity Mix; Low voltage; 2018; Global, GLO

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.schneider-electric.com/contact

Mandatory Indicators		WISER SMOKE ALARM - CCT599001						
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	8.04E+00	7.46E+00	1.74E-01	6.47E-03	3.70E-03	3.90E-01	-1.53E-02
Contribution to climate change-fossil	kg CO2 eq	7.95E+00	7.38E+00	1.74E-01	6.47E-03	3.69E-03	3.90E-01	-1.53E-02
Contribution to climate change-biogenic	kg CO2 eq	8.73E-02	8.73E-02	0*	0*	0*	0*	-3.30E-05
Contribution to climate change-land use and land use change	kg CO2 eq	1.52E-04	1.52E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.57E-06	1.41E-06	1.54E-07	2.57E-10	0*	3.30E-10	-2.25E-09
Contribution to acidification	mol H+ eq	6.15E-02	6.03E-02	7.65E-04	8.72E-05	2.33E-05	2.93E-04	-9.01E-05
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	7.37E-05	7.28E-05	2.04E-08	3.21E-08	0*	8.73E-07	-2.31E-08
Contribution to eutrophication marine	kg N eq	7.33E-03	6.81E-03	3.52E-04	4.12E-05	2.59E-06	1.23E-04	-8.80E-06
Contribution to eutrophication, terrestrial	mol N eq	7.79E-02	7.22E-02	3.82E-03	4.19E-04	3.21E-05	1.35E-03	-1.03E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.75E-02	2.58E-02	1.25E-03	1.01E-04	8.57E-06	3.32E-04	-3.58E-05
Contribution to resource use, minerals and metals	kg Sb eq	5.97E-04	5.97E-04	0*	0*	0*	0*	-4.80E-06
Contribution to resource use, fossils	MJ	1.06E+02	1.02E+02	2.17E+00	7.42E-02	6.84E-02	1.33E+00	-3.51E-01
Contribution to water use	m3 eq	5.23E+00	5.18E+00	8.84E-03	1.53E-02	0*	2.73E-02	-6.32E-03

Inventory flows Indicators		WISER SMOKE ALARM - CCT599001						
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	2.14E+00	2.13E+00	0*	0*	8.52E-03	2.11E-03	-2.77E-03
Contribution to use of renewable primary energy resources used as raw material	MJ	3.26E+00	3.26E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	5.40E+00	5.39E+00	0*	0*	8.52E-03	2.11E-03	-2.77E-03
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.02E+02	9.81E+01	2.17E+00	7.42E-02	6.84E-02	1.33E+00	-3.51E-01

Contribution to use of non renewable primary energy resources used as raw material	MJ	3.90E+00	3.90E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.06E+02	1.02E+02	2.17E+00	7.42E-02	6.84E-02	1.33E+00	-3.51E-01
Contribution to use of secondary material	kg	4.22E-03	4.22E-03	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	m^3	1.24E-01	1.22E-01	2.06E-04	3.57E-04	0*	6.36E-04	-1.47E-04
Contribution to hazardous waste disposed	kg	1.69E+00	1.65E+00	0*	0*	0*	3.66E-02	-3.79E-01
Contribution to non hazardous waste disposed	kg	5.04E+00	4.77E+00	0*	1.68E-01	5.75E-04	1.05E-01	-1.24E-02
Contribution to radioactive waste disposed	kg	1.25E-03	1.21E-03	3.46E-05	1.36E-07	0*	4.16E-06	-5.56E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.02E-03	1.10E-03	0*	0*	0*	3.92E-03	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	0.00E+00	0*	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 de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	5.34E-02

The calculation of the biogenic carbon is based on the Ademe for the Cardborad (28%), and APESA/RECORD for paper (37.8%).

Mandatory Indicators		WISER SMOKE ALARM - CCT599001						
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	3.70E-03	0*	0*	0*	0*	0*	3.70E-03	0*
Contribution to climate change-fossil	kg CO2 eq	3.69E-03	0*	0*	0*	0*	0*	3.69E-03	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	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	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	2.33E-05	0*	0*	0*	0*	0*	2.33E-05	0*
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	2.59E-06	0*	0*	0*	0*	0*	2.59E-06	0*
Contribution to eutrophication, terrestrial	mol N eq	3.21E-05	0*	0*	0*	0*	0*	3.21E-05	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	8.57E-06	0*	0*	0*	0*	0*	8.57E-06	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	6.84E-02	0*	0*	0*	0*	0*	6.84E-02	0*
Contribution to water use	m3 eq	0*	0*	0*	0*	0*	0*	0*	0*

Inventory flows Indicators		WISER SMOKE ALARM - CCT599001						
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	8.52E-03	0*	0*	0*	0*	0*	8.52E-03	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	8.52E-03	0*	0*	0*	0*	0*	8.52E-03	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.84E-02	0*	0*	0*	0*	0*	6.84E-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	6.84E-02	0*	0*	0*	0*	0*	6.84E-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	m^3	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	5.75E-04	0*	0*	0*	0*	0*	5.75E-04	0*
Contribution to radioactive waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	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 v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 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-01261-V01.01-EN	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	0	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	08-2024	*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"

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