



A leading player in the housing industry for over 50 years, SOMFY is working to reduce its carbon emissions by 50% by 2030 and like so helps its customers and partners in their environmental approach.

Our actions to reduce our carbon footprint:

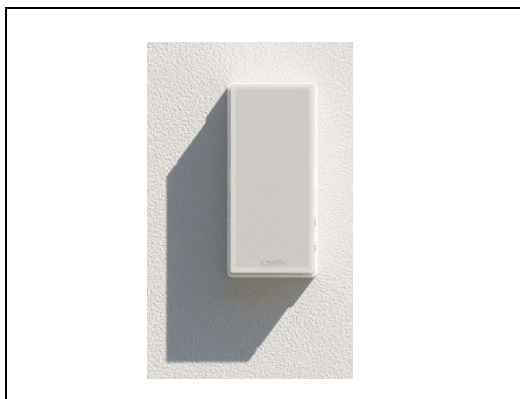
OFFER ECO-DESIGNED* PRODUCTS WITH A REDUCED ENVIRONMENTAL IMPACT THROUGHOUT THEIR LIFE CYCLE

OFFER SOLUTIONS THAT IMPROVE THE ENERGY EFFICIENCY OF BUILDINGS AND THUS LIMIT CO2 EMISSIONS.

[1]. Somfy's eco-design approach, identified by the ACT FOR GREEN label, aims to reduce the environmental impact of products throughout their life cycle, from the extraction of raw materials to the end of their life, by placing requirements above current regulations.



— Reference product



> Reference product

SUNTEIS PRO

Réf. **206613**

> Functional unit

Measure outdoor temperature and brightness during a lifetime of 10 years. This product includes a digital service for remote measurement and control of roller shutter opening.

>References covered

- SUNTEIS PRO
- SUNTEIS DIY

— Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Metals			Other		
	% mass	% rec		% mass	% rec		% mass	% rec
Polycarbonate Granulate (Pc)	32,3%	0%	Steel	4,6%	43%	Glass Fibre	3,0%	0%
Polyester Resin Reinforced Glass Fiber	2,3%	0%	Copper	1,0%	0%	Electrolyte	0,5%	0%
Epoxy Resin	2,0%	0%	Aluminium	1,0%	19%	Thionyl Chloride	0,3%	0%
Polyurethane Foam	1,3%	0%	Tin	0,3%	0%	Other	0,8%	0%
Polyamide 6	1,2%	0%	Nickel	0,1%	0%	Total	4,6%	
Other	1,5%	0%	Other	0,4%	0%	Packaging		
Total	40,5%		Total	7,3%		Cardboard	28,6%	50%
						Paper	19,0%	100%
						Total	47,6%	
Total mass of the reference product :			126 g					
Estimated recyclable content :			34,8%					

> CHEMICAL SUBSTANCES

The product covered by this PEP comply with REACH regulation and RoHS directive 2011/65/EU, 2015/863 et 201/2102.

— Representativeness

> Data has been collected in July 2024 by our design team, then treated and analyzed in November 2024.

> Data are related to the location of the production and assembly.

> Data matches with previous technology and commercial references only.



— Manufacturing

The devices covered in this PEP are manufactured in China with production that has adopted an environmental management approach.

> Energy model

China; 2020



— Distribution

> Packaging is continuously improved by reducing the amount and using a maximum of recycled materials

> The unit pack has been modeled here. It is made up of:

- 100% recycled fiber paper instructions
- cardboard with a minimum of 50% recycled fibers



— Installation

> Installation elements

There is no element included in this phase.

> Installation processes

There is no installation process

> Energy model

Not applicable

> Packaging End of life

100% of cardboard, plastic and paper is incinerated without energy recovery.



— Use

This product is an autonomous product from category 2 (active product). It is powered by a solar panel all its 10 years life cycle.

> Energy model of the use phase: None

> Consumables and maintenance : None



— End of life

> Typical transport conditions

Considering the complexity of the electric and electronic recycling channel and our lack of knowledge about the end-of-life processes implemented all around the world, we considered:

- 100 km of transport.
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation
- A waste incineration of electrical and electronic equipment.
- Loading rate of the truck going to the waste disposal center of 80%.



— Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: manufacturing, distribution, installation, use and end of life.
All calculations are done with EIME software version EIME© v6.2 and CODDE-2024/04, on functional unit with following indicator set :
Indicators for PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0

Indicators	Units	Global	Manufacturing	Distribution	Installation	Use	End of life	Module D
Climate change	kg CO2 eq.	1.61E+00	1.39E+00	4.03E-02	1.15E-01	0.00E+00	6.84E-02	6.28E-02
Climate change - biogenic	kg CO2 eq.	1.59E-02	-7.77E-02	0.00E+00	9.36E-02	0.00E+00	4.13E-05	-3.98E-02
Climate change - fossil	kg CO2 eq.	1.59E+00	1.46E+00	4.03E-02	2.11E-02	0.00E+00	6.84E-02	1.03E-01
Climate change - land use and land use change	kg CO2 eq.	6.11E-05	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ozone depletion	kg CFC-11 eq.	1.61E-07	1.59E-07	5.30E-11	7.39E-10	0.00E+00	1.30E-09	1.01E-08
Acidification	mol H+ eq.	1.17E-02	1.00E-02	1.32E-03	1.28E-04	0.00E+00	1.66E-04	5.57E-04
Eutrophication. freshwater	kg P eq.	4.41E-06	4.01E-06	1.39E-08	1.63E-08	0.00E+00	3.75E-07	7.91E-07
Eutrophication. marine	kg N eq.	1.77E-03	1.37E-03	3.16E-04	3.18E-05	0.00E+00	4.64E-05	1.13E-04
Eutrophication. terrestrial	mol N eq.	1.91E-02	1.47E-02	3.46E-03	4.15E-04	0.00E+00	5.70E-04	1.10E-03
Photochemical ozone formation. human health	kg NMVOC eq.	5.73E-03	4.63E-03	8.92E-04	8.96E-05	0.00E+00	1.23E-04	3.37E-04
Resource use. minerals and metals	kg SB eq.	1.33E-04	1.33E-04	1.45E-09	1.51E-09	0.00E+00	1.69E-09	1.57E-08
Resource use. fossils	MJ	2.43E+01	2.30E+01	5.13E-01	3.87E-01	0.00E+00	4.07E-01	2.00E+00
Water use	m3 eq.	4.07E-01	4.04E-01	1.34E-04	8.75E-04	0.00E+00	2.00E-03	7.98E-02
Particulate matter	Disease occurrence	6.56E-08	5.66E-08	7.03E-09	8.91E-10	0.00E+00	1.09E-09	3.07E-09
Ionising radiation. human health	kBq U235 eq.	3.89E+01	3.89E+01	8.42E-05	8.53E-03	0.00E+00	8.45E-03	7.80E-03
Ecotoxicity. freshwater	CTUe	5.33E+01	5.08E+01	2.42E-02	5.05E-01	0.00E+00	1.97E+00	7.40E-01
Human toxicity. cancer	CTUh	1.79E-08	5.32E-09	6.05E-13	3.63E-12	0.00E+00	1.25E-08	1.67E-11
Human toxicity. non-cancer	CTUh	1.83E-08	1.63E-08	1.34E-11	1.51E-10	0.00E+00	1.83E-09	4.39E-10
Land use	No dimension	1.85E-01	1.84E-01	0.00E+00	3.97E-04	0.00E+00	4.44E-04	0.00E+00
Renewable primary energy used as energy	MJ	1.68E+00	1.62E+00	6.57E-04	2.86E-02	0.00E+00	2.71E-02	5.78E-01
Renewable primary energy used as raw material	MJ	3.60E-01	3.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total renewable primary energy	MJ	2.04E+00	1.98E+00	6.57E-04	2.86E-02	0.00E+00	2.71E-02	5.78E-01
Non renewable primary energy used as energy	MJ	2.25E+01	2.12E+01	5.13E-01	3.87E-01	0.00E+00	4.07E-01	2.00E+00
Non renewable primary energy used as raw material	MJ	1.73E+00	1.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total non renewable primary energy	MJ	2.43E+01	2.30E+01	5.13E-01	3.87E-01	0.00E+00	4.07E-01	2.00E+00
Total Primary Energy	MJ	2.63E+01	2.50E+01	5.13E-01	4.16E-01	0.00E+00	4.34E-01	2.57E+00
Use of secondary material	kg	5.00E-02	5.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of freshwater	m3	9.50E-03	9.40E-03	3.11E-06	3.44E-05	0.00E+00	5.83E-05	1.86E-03
Hazardous waste disposed	kg	1.92E+00	1.84E+00	0.00E+00	2.21E-02	0.00E+00	5.35E-02	2.36E-02
Non hazardous waste disposed	kg	5.61E-01	5.53E-01	1.24E-03	3.01E-03	0.00E+00	3.16E-03	5.25E-01
Radioactive waste disposed	kg	5.41E-04	5.37E-04	8.63E-07	1.24E-06	0.00E+00	1.36E-06	3.11E-05
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported Energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Product Environmental Profil

SUNTEIS light and temperature sensor



> Here are the impacts of the B module, the use phase.

Indicators	Units	Use	B1	B2	B3	B4	B5	B6	B7
Climate change	kg CO2 eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Climate change - biogenic	kg CO2 eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Climate change - fossil	kg CO2 eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Climate change - land use and land use change	kg CO2 eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ozone depletion	kg CFC-11 eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acidification	mol H+ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eutrophication. freshwater	kg P eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eutrophication. marine	kg N eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eutrophication. terrestrial	mol N eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Photochemical ozone formation. human health	kg NMVOC eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resource use. minerals and metals	kg SB eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Resource use. fossils	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Water use	m3 eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Particulate matter	Disease occurrence	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ionising radiation. human health	kBq U235 eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ecotoxicity. freshwater	CTUe	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Human toxicity. cancer	CTUh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Human toxicity. non-cancer	CTUh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Land use	No dimension	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable primary energy used as energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable primary energy used as raw material	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total renewable primary energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non renewable primary energy used as energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non renewable primary energy used as raw material	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total non renewable primary energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Primary Energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of secondary material	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of freshwater	m3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Radioactive waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported Energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

> **Biogenic carbon content** : 0.000 kg C. biogenic for the product, 0.003 kg C. biogenic for the packaging, using -1/+1 method with the EF3.1 indicator set.

50, avenue du Nouveau
Monde
74300 Cluses
Tél. 04 50 96 83 79

Product Environmental Profil

SUNTEIS light and temperature sensor



> Those impacts are applicable to all product references on page 1.

> Extrapolation rule

Don't needed

Registration number : SOMF-00154-V01.01-EN	Drafting Rules: PCR-ed4-FR-2021 09 06 Complemented by : PSR-0005-ed3.1-FR-2023 12 08
Accreditation number: VH48	Programme information: www.pep-ecopassport.org
Date of issue: 11-2024	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 Julie ORGELET (DDEMAIN)	
PEP are compliant with ISO 14025 environnemental declaration type III	
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. »	
PEP are compliant with NF C08-100-1 :2016 and EN 50693 :2019 or NF E38-500 :2022	
Somfy contact: Pierre HOGUET. Ecodesign Engineer. pierre.hoguet@somfy.com	

