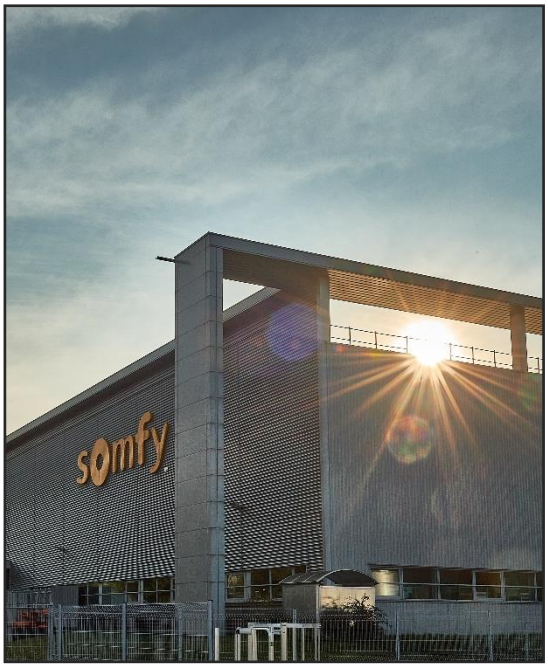
50, avenue du Nouveau Monde
74300 Cluses
Tél. 04 50 96 83 79

Product Environmental Profil

Wireless remote control SITUO RTS II VARIATION



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

Situo 5 Variation RTS Pure II FCC

Réf.	1811612

> Functional unit

To control blinds equipped with a io motor during a lifetime of 10 years.

>References covered

Situo Variation Soliris RTS Pure II, **ref 1800503**
Situo 5 Variation RTS Silver II 20L, **ref 1811611**
Situo 5 Variation RTS Pure II 20L, **ref 1811610**
Situo 1 Variation RTS Silver II 20L, **ref 1811609**
Situo 1 Variation RTS Pure II 20L, **ref 1811608**
Situo 5 Variation RTS Pure II 447MZH JOO (Japan Version), **ref 1811614**
Situo 5 Variation RTS Pure II 426MZH KK (Korean Version), **ref 1811613**

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	
	%		%		%
ABS	32.4	**Steel**	1.4	**Glass fiber**	5.4
PET	5.5	**Tin**	1.3	**thionyl chloride**	1.6
Silicon	4.1	**Copper**	0.6	**lithium hydroxide**	0.2
Epoxy resin	3.5	**Nickel**	0.3	**Other**	0.9
PA66	1.3	**Lithium**	0.2	**Total**	8.1
Other	1.7	**Other**	0.1	Packaging	
Total	48.5	**Total**	3.9	**Cardboard**	7.9
				Paper	31.6
				Sum	39.5
Total mass of the reference product : 127g					
Estimated recyclable content : 31.8%					

> CHEMICAL SUBSTANCES

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

Representativness

> Data has been collected between January and August 2023 by our design team, then treated and analyzed in August 2023.

> 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 Tunisia, in a production that has adopted an environmental management approach.

> Energy model

Tunisian mix ; 2018

— 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

Landfill for paper and cardboard

— Use

This product is an autonomous product from category 2 (active product). It's powered by a battery and needs 2 batteries to cover all its life cycle of 10 years.

> Energy model of the use phase: None

> Consumables and maintenance : 2 batteries CR2032 (the first is sold with the product, the other is not)

— 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:

- 200 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 85%.

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© v5.9.3 and CODDE 2022-01, on functional unit.

Indicateurs	Units	Global	Manifacturing	Distribution	Installation	Use	End of life	Module D
Resource use, minerals and metals (Abiotic resource depletion – Elements)	**kg SB eq.**	2.13e-4	2.13e-4	1.47e-9	1.09e-10	3.11e-8	3.53e-10	2.12e-8
Resource use, fossils (Abiotic resource depletion – Fossil fuels)	**MJ**	2.60e+1	2.44e+1	5.21e-1	2.83e-2	9.87e-1	7.05e-2	2.19e+0
Acidification	**mol H+ eq.**	1.42e-2	1.24e-2	1.35e-3	1.51e-5	4.27e-4	4.60e-5	6.76e-4
Ecotoxicity, freshwater	**CTUe**	4.92e+1	3.58e+1	2.52e-2	1.12e-1	3.09e+0	1.01e+1	1.37e+0
Human toxicity, cancer	**CTUh**	7.26e-9	5.76e-9	6.15e-13	5.02e-13	1.40e-9	1.05e-10	8.70e-7
Human toxicity, non-cancer	**CTUh**	3.61e-8	3.15e-8	1.21e-10	4.46e-11	2.09e-9	2.36e-9	1.14e-9
Eutrophication, freshwater	**kg P eq.**	8.55e-6	6.02e-6	1.42e-8	2.76e-7	1.32e-7	2.10e-6	7.12e-7
Eutrophication, marine	**kg N eq.**	2.12e-3	1.73e-3	3.21e-4	2.46e-5	2.80e-5	1.93e-5	1.19e-4
Eutrophication, terrestrial	**mol N eq.**	2.12e-2	1.72e-2	3.52e-3	6.41e-5	3.15e-4	1.80e-4	1.28e-3
Climate change - total	**kg CO2 eq.**	2.31e+0	2.14e+0	4.11e-2	2.44e-2	3.48e-2	7.42e-2	1.46e-1
Climate change - biogenic	**kg CO2 eq.**	8.59e-3	8.60e-3	0.00e+0	-1.93e-11	-1.52e-5	-5.02e-7	3.52e-2
Climate change - fossil	**kg CO2 eq.**	2.30e+0	2.13e+0	4.11e-2	2.44e-2	3.48e-2	7.42e-2	1.11e-1
Climate change - land use and land transformation	**kg CO2 eq.**	7.85e-10	7.85e-10	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Ionising radiation, human health	**kg U235 eq.**	7.73e+0	7.05e+0	8.55e-5	4.54e-5	6.73e-1	5.65e-4	9.47e-3
Land use	**No dimension**	1.45e-2	1.45e-2	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Ozone depletion	**kg CFC-11 eq.**	2.64e-7	2.53e-7	5.38e-11	6.61e-11	1.06e-8	3.19e-10	1.43e-8
Particulate matter	**Disease occurrence**	7.85e-8	6.86e-8	7.14e-9	1.15e-10	2.42e-9	2.56e-10	3.42e-9
Photochemical ozone formation, human health	**kg NMVOC eq.**	6.80e-3	5.69e-3	9.06e-4	2.27e-5	1.43e-4	4.60e-5	4.07e-4
Water use	**m3 eq.**	5.31e-1	5.03e-1	1.36e-4	7.51e-5	2.74e-2	1.31e-3	9.23e-2
Total Primary Energy	MJ	2.67e+1	2.51e+1	5.21e-1	2.86e-2	9.87e-1	7.21e-2	2.96e+0
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.85e-1	5.82e-1	6.68e-4	3.15e-4	1.86e-4	1.54e-3	7.72e-1
Use of renewable primary energy resources used as raw material	MJ	1.00e-1	1.00e-1	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Total use of renewable primary energy resources	MJ	6.85e-1	6.82e-1	6.68e-4	3.15e-4	1.86e-4	1.54e-3	7.72e-1
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.37e+1	2.21e+1	5.21e-1	2.83e-2	9.79e-1	7.05e-2	2.19e+0
Use of non renewable primary energy resources used as raw material	MJ	2.31e+0	2.30e+0	0.00e+0	0.00e+0	7.82e-3	0.00e+0	0.00e+0
Total use of non-renewable primary energy resources	MJ	2.60e+1	2.44e+1	5.21e-1	2.83e-2	9.87e-1	7.05e-2	2.19e+0
Use of secondary material	kg	5.39e-2	5.39e-2	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of renewable secondary fuels	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of non renewable secondary fuels	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Net use of freshwater	m3	1.24e-2	1.17e-2	3.16e-6	1.75e-6	6.38e-4	3.06e-5	2.15e-3
Non hazardous waste disposed	kg	9.44e-1	8.69e-1	1.26e-3	2.01e-2	1.80e-3	5.26e-2	1.52e-1
Hazardous waste disposed	kg	3.35e+0	3.25e+0	0.00e+0	1.52e-5	5.20e-2	4.51e-2	3.83e-2
Radioactive waste disposed	kg	3.21e-4	3.08e-4	8.77e-7	3.86e-7	1.04e-5	1.91e-6	1.48e-5
Components for reuse	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Materials for recycling	kg	1.33e-9	1.33e-9	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Materials for energy recovery	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Exported Energy	MJ	9.53e-2	9.42e-2	0.00e+0	1.15e-3	0.00e+0	0.00e+0	0.00e+0

> Here are the impacts of the B module.

Indicateurs	Units	Use	B1	B2	B3	B4	B5	B6	B7
Resource use, minerals and metals (Abiotic resource depletion – Elements)	kg SB eq.	3.11e-8	0.00e+0	0.00e+0	0.00e+0	3.11e-8	0.00e+0	0.00e+0	0.00e+0
Resource use, fossils (Abiotic resource depletion – Fossil fuels)	MJ	9.87e-1	0.00e+0	0.00e+0	0.00e+0	9.87e-1	0.00e+0	0.00e+0	0.00e+0
Acidification	mol H+ eq.	4.27e-4	0.00e+0	0.00e+0	0.00e+0	4.27e-4	0.00e+0	0.00e+0	0.00e+0
Ecotoxicity, freshwater	CTUe	3.09e+0	0.00e+0	0.00e+0	0.00e+0	3.09e+0	0.00e+0	0.00e+0	0.00e+0
Human toxicity, cancer	CTUh	1.40e-9	0.00e+0	0.00e+0	0.00e+0	1.40e-9	0.00e+0	0.00e+0	0.00e+0
Human toxicity, non-cancer	CTUh	2.09e-9	0.00e+0	0.00e+0	0.00e+0	2.09e-9	0.00e+0	0.00e+0	0.00e+0
Eutrophication, freshwater	kg P eq.	1.32e-7	0.00e+0	0.00e+0	0.00e+0	1.32e-7	0.00e+0	0.00e+0	0.00e+0
Eutrophication, marine	kg N eq.	2.80e-5	0.00e+0	0.00e+0	0.00e+0	2.80e-5	0.00e+0	0.00e+0	0.00e+0
Eutrophication, terrestrial	mol N eq.	3.15e-4	0.00e+0	0.00e+0	0.00e+0	3.15e-4	0.00e+0	0.00e+0	0.00e+0
Climate change - total	kg CO2 eq.	3.48e-2	0.00e+0	0.00e+0	0.00e+0	3.48e-2	0.00e+0	0.00e+0	0.00e+0
Climate change - biogenic	kg CO2 eq.	-1.52e-5	0.00e+0	0.00e+0	0.00e+0	-1.52e-5	0.00e+0	0.00e+0	0.00e+0
Climate change - fossil	kg CO2 eq.	3.48e-2	0.00e+0	0.00e+0	0.00e+0	3.48e-2	0.00e+0	0.00e+0	0.00e+0
Climate change - land use and land transformation	kg CO2 eq.	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Ionising radiation, human health	kg U235 eq.	6.73e-1	0.00e+0	0.00e+0	0.00e+0	6.73e-1	0.00e+0	0.00e+0	0.00e+0
Land use	No dimension	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Ozone depletion	kg CFC-11 eq.	1.06e-8	0.00e+0	0.00e+0	0.00e+0	1.06e-8	0.00e+0	0.00e+0	0.00e+0
Particulate matter	Disease occurrence	2.42e-9	0.00e+0	0.00e+0	0.00e+0	2.42e-9	0.00e+0	0.00e+0	0.00e+0
Photochemical ozone formation, human health	kg NMVOC eq.	1.43e-4	0.00e+0	0.00e+0	0.00e+0	1.43e-4	0.00e+0	0.00e+0	0.00e+0
Water use	m3 eq.	2.74e-2	0.00e+0	0.00e+0	0.00e+0	2.74e-2	0.00e+0	0.00e+0	0.00e+0
Total Primary Energy	MJ	9.87e-1	0.00e+0	0.00e+0	0.00e+0	9.87e-1	0.00e+0	0.00e+0	0.00e+0
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.86e-4	0.00e+0	0.00e+0	0.00e+0	1.86e-4	0.00e+0	0.00e+0	0.00e+0
Use of renewable primary energy resources used as raw material	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Total use of renewable primary energy resources	MJ	1.86e-4	0.00e+0	0.00e+0	0.00e+0	1.86e-4	0.00e+0	0.00e+0	0.00e+0
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.79e-1	0.00e+0	0.00e+0	0.00e+0	9.79e-1	0.00e+0	0.00e+0	0.00e+0
Use of non renewable primary energy resources used as raw material	MJ	7.82e-3	0.00e+0	0.00e+0	0.00e+0	7.82e-3	0.00e+0	0.00e+0	0.00e+0
Total use of non-renewable primary energy resources	MJ	9.87e-1	0.00e+0	0.00e+0	0.00e+0	9.87e-1	0.00e+0	0.00e+0	0.00e+0
Use of secondary material	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of renewable secondary fuels	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of non renewable secondary fuels	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Net use of freshwater	m3	6.38e-4	0.00e+0	0.00e+0	0.00e+0	6.38e-4	0.00e+0	0.00e+0	0.00e+0
Non hazardous waste disposed	kg	1.80e-3	0.00e+0	0.00e+0	0.00e+0	1.80e-3	0.00e+0	0.00e+0	0.00e+0
Hazardous waste disposed	kg	5.20e-2	0.00e+0	0.00e+0	0.00e+0	5.20e-2	0.00e+0	0.00e+0	0.00e+0
Radioactive waste disposed	kg	1.04e-5	0.00e+0	0.00e+0	0.00e+0	1.04e-5	0.00e+0	0.00e+0	0.00e+0
Components for reuse	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Materials for recycling	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Materials for energy recovery	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Exported Energy	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0

> Biogenic carbon content : 0 kg of C. biogenic for the product, 0.018 kg of C. biogenic for the packaging.

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

> Extrapolation rule
Not applicable

Registration number :**SOMF-00021-V02.01-EN**	Drafting Rules: PCR-ed4-FR-2021 09 06 Complemented by : PSR-0005-ed2-FR-2016 03 29
Accreditation number: VH48	Programme information: www.pep-ecopassport.org
Date of issue: 10-2023	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 II VARIATIONI 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 II VARIATIONI environmental déclarations. »	
Somfy contact: Pierre HOGUET. Ecodesign Engineer. pierre.hoguet@somfy.com	