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

Product Environmental Profile
Keypad

Reference product

> Reference product
KEYPAD 2 IO PREMIUM PRO

Ref 1870919A

> Functional unit
Control roller shutters equipped with Somfy RTS motors by radio for a life span of 10 years

> Reference covered

KEYPAD 2 RTS DIY 1870916A
KEYPAD 2 RTS PRO 1870917A
KEYPAD 2 RTS KIT 5157057A
DIGICODE HZ 2C 2009771A
KEYPAD 2 IO PREMIUM PRO 1870919A
KEYPAD 2 IO PRO 1870918A
KEYPAD 2 IO DIY 1870929A

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		
	g	%		g	%		g	%
ABS	56.1	12.1%	**zamak**	296	63.2	**Manganese dioxide**	9.9	2.1
Silicon rubber	29.5	6.3	**Zinc**	4.3	0.9	**Water**	2.4	0.5
PC	16.6	3.6	**Steel**	3.5	0.8	**Potassium Hydroxide**	1.7	0.4
Polyethylene	1.2	0.3	**Cooper**	0.8	0.2	**Polyurethane paint**	1.5	0.3
Nitril rubber	1.0	0.2	**Stainless steel with chrome**	0.8	0.2	**carbon**	1.1	0.2
Flexible polyurethane foam	0.8	0.2	**Tin**	0.2	0.1	**Others**	0.3	0.1
Other	1.1	0.2	**Others**	1.0	0.2	**Total**	16.8	3.6
Total	106.3	22.9	**Total**	306.6	65.7			
						Packaging		
						Corrugated cardboard	22.4	4.8
						Paper	13.9	3.0
Total mass of reference flow: 466.2g								
Estimated recyclable content: 20.7%								

> CHEMICAL SUBSTANCES
The product covered by this PEP comply with REACH regulation and RoHS directive 2011/65/EU, 2015/863 and 2017/2102

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Manufacturing

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

> Energy mix
European Mix
One battery is produced during the manufacturing phase

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

Use

This active product of Categorie 2 is autonome. With 16 actions per day (4 by channel), this product needs 19mA during active mode which is 0,04% of the time and 0,000525mA during standly mode which is 99,96% of the time".

> Energy model of the use phase: Not applicable

> Consumables and maintenance: 3 Batteries CR2450 (Battery delivered with the product excluded, those 3 batteries are not delivered with the product)

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:

- 1000 km of transport
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation.
- A waste incineration of electrical and electronic equipment
- Batteries need to be recycled and put in a specific bin.

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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© v5.9.1 and CODDE 2020-12

	Sum	Unit	Manufacturing	Distribution	Installation	Use	End of life
ADPe for EN15804	2.06e-4	kg antimony eq.	1.97e-4	4.73e-9	8.74e-11	9.09e-6	1.65e-9
ADPf for EN15804	6.01e+1	MJ	5.71e+1	1.66e+0	2.44e-2	9.23e-1	3.67e-1
AP for DHUP)	9.92e+2	m³	9.47e+2	1.79e+1	2.74e-1	2.38e+1	2.74e+0
AP for EN15804	1.64e-2	kg SO2 eq.	1.25e-2	3.71e-3	8.98e-6	9.07e-5	1.35e-4
EP for EN15804	3.70e-3	kg PO4--- eq.	3.04e-3	3.65e-4	6.60e-5	3.67e-5	1.97e-4
GWP for EN15804	6.39e+0	kg CO2 eq.	6.04e+0	1.31e-1	3.71e-2	1.31e-2	5.80e-2
ODP for EN15804	4.50e-7	kg CFC-11 eq.	4.33e-7	2.24e-10	9.58e-11	1.63e-8	5.05e-10
POCP for EN15804	1.55e-3	kg ethylene eq.	1.34e-3	1.84e-4	8.92e-6	8.03e-6	1.01e-5
WP for DHUP	4.32e+2	m³	4.01e+2	1.95e+1	1.93e+0	4.87e+0	4.90e+0
Use of renewable primary energy excluding renewable primary energy used as raw material	2.65e+0	MJ	2.64e+0	2.13e-3	1.82e-4	2.04e-3	4.71e-3
Use of renewable primary energy resources used as raw material	6.72e-2	MJ	6.72e-2	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Total use of renewable primary energy resources	2.72e+0	MJ	2.71e+0	2.13e-3	1.82e-4	2.04e-3	4.71e-3
Use of non renewable primary energy excluding non renewable primary energy used as raw material	7.76e+1	MJ	7.41e+1	1.67e+0	2.67e-2	1.40e+0	3.85e-1
Use of non renewable primary energy resources used as raw material	1.33e+0	MJ	1.29e+0	0.00e+0	0.00e+0	3.16e-2	0.00e+0
Total use of non-renewable primary energy resources	7.89e+1	MJ	7.54e+1	1.67e+0	2.67e-2	1.43e+0	3.85e-1
Use of secondary material	9.90e-2	kg	9.90e-2	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of renewable secondary fuels	0.00e+0	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of non renewable secondary fuels	0.00e+0	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Net use of freshwater	2.41e+0	m3	2.41e+0	1.01e-5	2.30e-6	1.48e-3	2.55e-5
Hazardous waste disposed	1.53e+0	kg	1.48e+0	0.00e+0	2.66e-5	3.89e-3	1.70e-2
Non hazardous waste disposed	3.65e+0	kg	3.19e+0	4.03e-3	2.84e-2	2.43e-3	4.19e-1
Radioactive waste disposed	1.92e-3	kg	1.91e-3	2.80e-6	2.52e-7	1.66e-6	5.57e-6
Components for reuse	0.00e+0	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Materials for recycling	0.00e+0	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Materials for energy recovery	0.00e+0	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Exported Energy	4.51e-3	MJ	1.70e-3	0.00e+0	2.81e-3	0.00e+0	0.00e+0

> Extrapolation rule

All the impacts generated on this sheet can be applied to the references available page 1.

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Accreditation number: VH18	Programme information: **www.pep-ecopassport.org**
Date of issue: 12-2021	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal ❒ External ☒ Bureau Veritas LCIE	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another programme.	
Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations	
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