

Product Environmental Profile

SmartX HMI Advanced Display v3





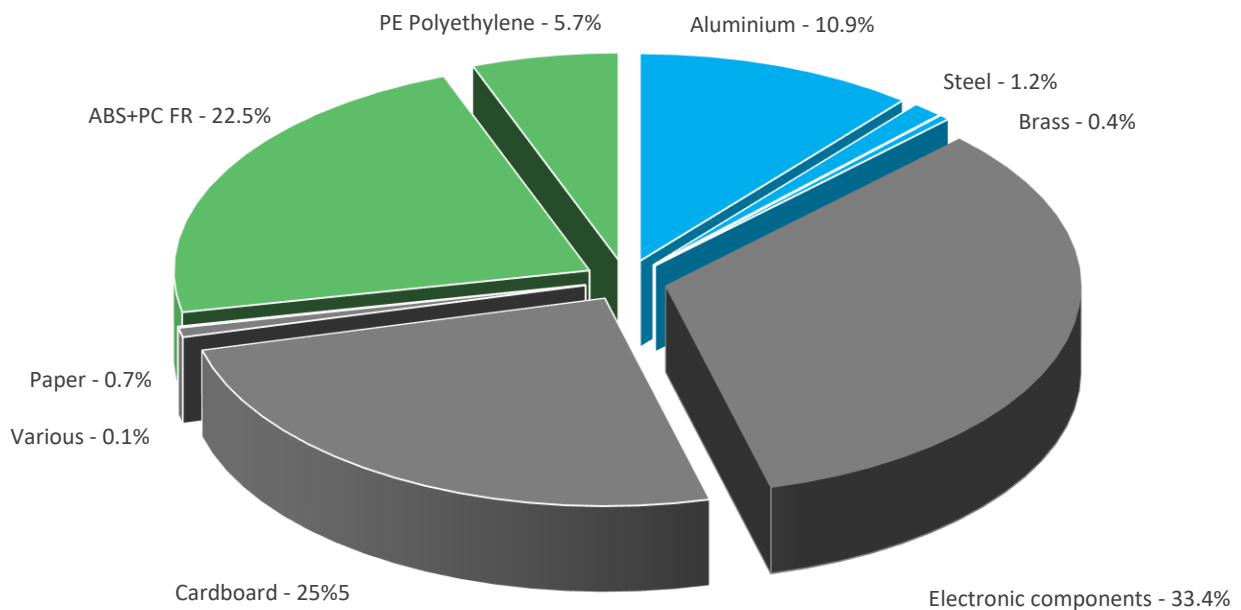
General information

Representative product	SmartX HMI Advanced Display v3 - SXWADBUND10003
Description of the product	SmartX Advanced Display v3 (AD v3) is an industrial grade Human Machine Interface (HMI) that can easily be locked to an application such as EcoStruxure Building Operation WebStation to create a dedicated tool for local operation and maintenance of an EcoStruxure BMS.
Functional unit	To locally be able to operate and maintain an EcoStruxure Building Management System with this 10.1" Human Machine Interface (HMI) during 5 years.



Constituent materials

Reference product mass	1389 g including the product, its packaging and additional elements and accessories
-------------------------------	---



Plastics	28.2%
Metals	12.5%
Others	59.2%



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 2015/863/EU of 31 March 2015) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium, flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) or phthalates (bis(2-ethylhexyl) phthalate - DEHP, butyl benzyl phthalate - BBP, dibutyl phthalate - DBP, diisobutyl phthalate - DIBP) as mentioned in the directives.

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 SmartX HMI Advanced Display v3 presents the following relevant environmental aspects

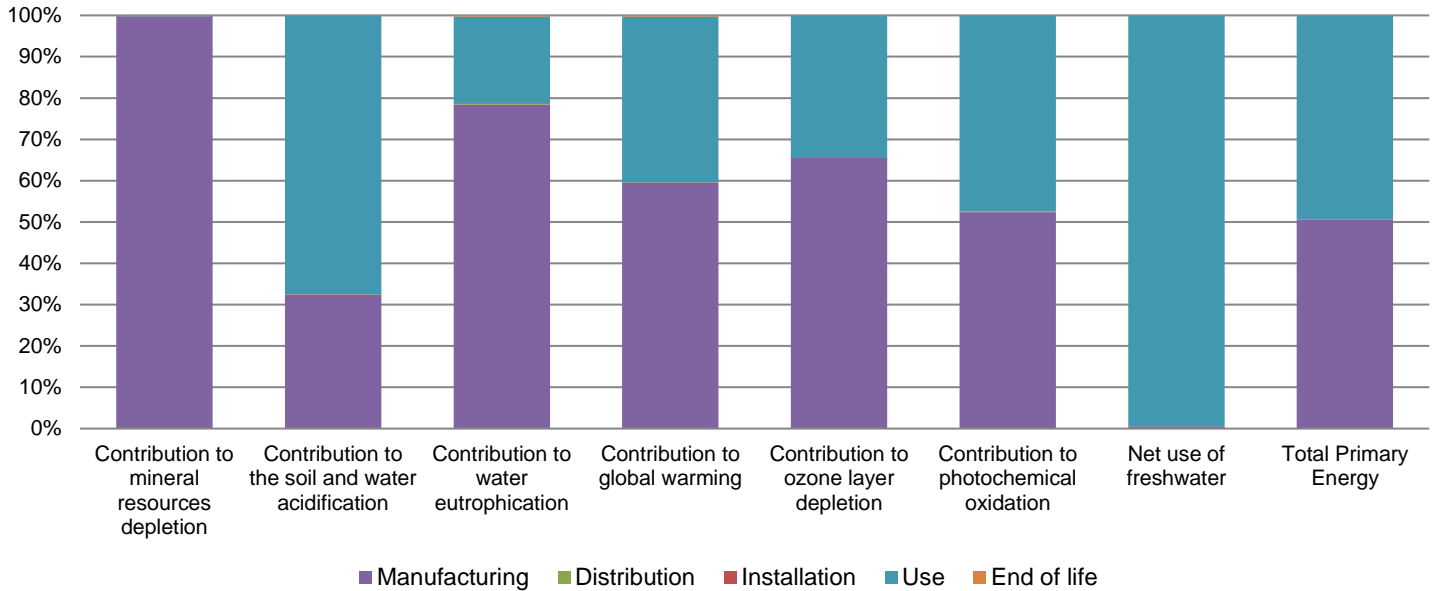
Manufacturing	Manufactured at a ISO14001 certified production site.
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive. Packaging weight is 437.6 g, consisting of cardboard (79.5%), paper (2.3%), LDPE (18.2%) Packaging recycled materials is 40% of total packaging mass. Product distribution optimised by setting up local distribution centres.
Installation	Ref SXWADBUND10003 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. This product contains electronic card (143g), LCD (321g) and batteries (3g) that should be separated from the stream of waste so as to optimize end-of-life treatment. 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. http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: 33% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



Environmental impacts

Reference life time	5 years			
Installation elements	Disposal of packaging is accounted for in the installation phase.			
Use scenario	The product is in active mode 2% of the time with a power use of 19.4W, in stand-by mode 8% of the time with a power use of 12.5W and in sleep mode 90% of the time with a power use of 3.6W, for 5 years.			
Geographical representativeness	Europe			
Technological representativeness	SmartX Advanced Display v3 (AD v3) is an industrial grade Human Machine Interface (HMI) that can easily be locked to an application such as EcoStruxure Building Operation WebStation to create a dedicated tool for local operation and maintenance of an EcoStruxure BMS.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Taiwan	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		SmartX HMI Advanced Display v3 - SXWADBUND10003					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5.17E-03	5.16E-03	0*	0*	8.63E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	6.15E-01	2.00E-01	8.18E-04	1.12E-04	4.14E-01	4.38E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.18E-01	9.24E-02	1.88E-04	5.03E-05	2.50E-02	2.95E-04
Contribution to global warming	kg CO ₂ eq	2.48E+02	1.47E+02	1.79E-01	2.73E-02	9.93E+01	7.06E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.88E-05	1.23E-05	0*	0*	6.47E-06	1.58E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	4.80E-02	2.51E-02	5.84E-05	8.42E-06	2.28E-02	3.92E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	3.62E+02	2.12E+00	0*	0*	3.60E+02	0*
Total Primary Energy	MJ	4.02E+03	2.03E+03	2.53E+00	0*	1.98E+03	1.86E+00



Optional indicators		SmartX HMI Advanced Display v3 - SXWADBUND10003					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.93E+03	1.80E+03	2.52E+00	3.33E-01	1.13E+03	1.49E+00
Contribution to air pollution	m³	1.82E+04	1.39E+04	7.62E+00	0*	4.27E+03	1.46E+01
Contribution to water pollution	m³	1.37E+04	9.48E+03	2.95E+01	3.89E+00	4.10E+03	4.15E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.10E-01	5.10E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.99E+02	4.70E+01	0*	0*	2.52E+02	0*
Total use of non-renewable primary energy resources	MJ	3.72E+03	1.98E+03	2.53E+00	0*	1.73E+03	1.86E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.99E+02	4.69E+01	0*	0*	2.52E+02	0*
Use of renewable primary energy resources used as raw material	MJ	1.70E-01	1.70E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.70E+03	1.97E+03	2.53E+00	0*	1.73E+03	1.86E+00
Use of non renewable primary energy resources used as raw material	MJ	1.77E+01	1.77E+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	1.49E+02	1.47E+02	0*	0*	5.18E-02	2.04E+00
Non hazardous waste disposed	kg	3.99E+02	2.82E+01	0*	6.60E-02	3.70E+02	0*
Radioactive waste disposed	kg	2.65E-01	1.76E-02	0*	0*	2.47E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	7.76E-01	8.72E-02	0*	3.79E-01	0*	3.10E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	7.03E-02	0*	0*	0*	0*	7.03E-02
Exported Energy	MJ	1.13E-03	1.06E-04	0*	1.03E-03	0*	0*

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The manufacturing 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 number :	SCHN-00484-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH33	Information and reference documents	www.pep-ecopassport.org
Date of issue	09/2019	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External	X	
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 program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



Schneider Electric Industries SAS

Country Customer Care Center
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier
 CS 30323
 F- 92506 Rueil Malmaison Cedex
 RCS Nanterre 954 503 439
 Capital social 896 313 776 €

www.schneider-electric.com

Published by Schneider Electric

SCHN-00484-V01.01-EN

© 2019 - Schneider Electric – All rights reserved

09/2019