Product Environmental Profile

MP-C 36 POINTS 8 UIOC 8 FORM 20 UIOB

MP-C-XX, IP-IO





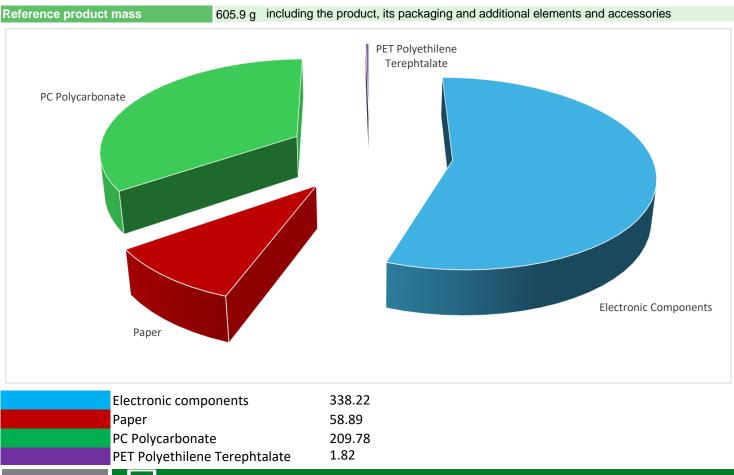






Representative product	MP-C 36 POINTS 8 UIOC 8 FORM 20 UIOB - SXWMPC36A10001
Description of the product	SmartX Controller – MP-C is a multi-purpose, fully programmable, IP based field controller. The MP-C models offer a flexible mix of I/O point types that suits a wide range of HVAC applications.
Description of the range	All MP-C and IP-IO models The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	SmartX Controller – MP-C is a multi-purpose, fully programmable, IP based field controller during 10 years.

Constituent materials



☐ | 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 do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

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

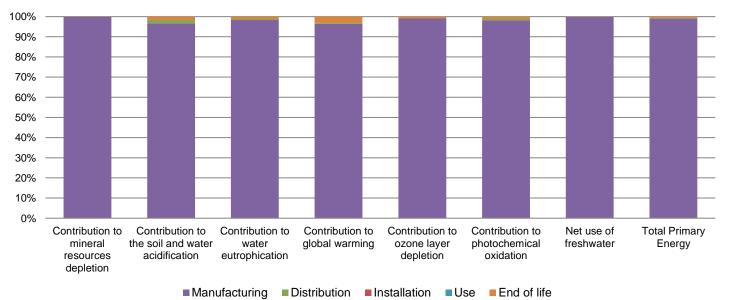


Th	e MP-C 36 POINTS 8 UIOC 8 FORM 20 UIOB presents the following relevent environmental aspects						
Design	This product no longer contains a battery and the terminal blocks no longer contain red phosphorous.						
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 58.9 g, consisting of cardboard (78%), paper (17%), LD-PE (5%)						
Distribution	Packaging recycled materials is 60% of total packaging mass.						
	Product distribution optimised by setting up local distribution centres						
Installation	Ref. SXWMPC36A10001 does not require any installation operations.						
Use	The product does not require special maintenance operations.						
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials						
	This product contains electronic cards (270g) that should be separated from the stream of waste so as to optimize end of-life treatment.						
End of life	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						
	Based on "ECO'DEEE recyclability and recoverability calculation method" Recyclability potential: 9% (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).						

Environmental impacts

Reference life time	10 years						
Product category	Other equipments - Active product						
Installation elements	No special components needed						
Use scenario	PSR0005, sec. 3.13 Other Equ years	PSR0005, sec. 3.13 Other Equipment, Active Products Category 2 - 100% active mode, 15KW over 10					
Geographical representativeness	Europe, US, China, France						
Technological representativeness	SmartX Controller – MP-C is a multi-purpose, fully programmable, IP based field controller. The MP-C models offer a flexible mix of I/O point types that suits a wide range of HVAC applications.						
	Manufacturing	Installation	Use	End of life			
Energy model used	Energy model used: France	Electricity grid mix 1kV- Electricity grid mix 1kV- Electricity grid mix 1kV- 60kV: AC: consumption 60kV: AC:					

Compulsory indicators	MP-C 36 POINTS 8 UIOC 8 FORM 20 UIOB - SXWMPC36A10001						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.94E-03	3.94E-03	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.99E-02	1.93E-02	3.57E-04	0*	0*	3.12E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.44E-02	1.41E-02	8.22E-05	0*	0*	1.63E-04
Contribution to global warming	kg CO ₂ eq	1.70E+01	1.64E+01	7.82E-02	0*	0*	5.26E-01
Contribution to ozone layer depletion	kg CFC11 eq	2.09E-06	2.07E-06	0*	0*	0*	1.89E-08
Contribution to photochemical oxidation	$kg C_2H_4 eq$	2.57E-03	2.52E-03	2.55E-05	0*	0*	2.47E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.74E-01	1.74E-01	0*	0*	0*	2.59E-04
Total Primary Energy	MJ	2.40E+02	2.38E+02	1.11E+00	0*	0*	1.31E+00



Optional indicators		MP-C 36 PO	INTS 8 UIOC 8 FC	ORM 20 UIOB -	SXWMPC36A	10001	
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.04E+02	2.02E+02	1.10E+00	0*	0*	1.23E+00
Contribution to air pollution	m³	1.77E+03	1.76E+03	3.33E+00	0*	0*	9.40E+00
Contribution to water pollution	m³	1.82E+03	1.79E+03	1.29E+01	0*	0*	2.19E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.24E-03	2.24E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	6.10E+00	6.09E+00	1.47E-03	0*	0*	1.16E-03
Total use of non-renewable primary energy resources	MJ	2.34E+02	2.32E+02	1.10E+00	0*	0*	1.30E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.05E+00	5.05E+00	1.47E-03	0*	0*	1.16E-03
Use of renewable primary energy resources used as raw material	MJ	1.04E+00	1.04E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.23E+02	2.20E+02	1.10E+00	0*	0*	1.30E+00

Use of non renewable primary energy resources used as raw material	MJ	1.15E+01	1.15E+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	1.06E+01	9.17E+00	0*	0*	0*	1.39E+00
Non hazardous waste disposed	kg	3.55E+00	3.54E+00	2.78E-03	0*	0*	3.38E-03
Radioactive waste disposed	kg	2.17E-03	2.16E-03	1.98E-06	0*	0*	9.20E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.14E-01	8.52E-03	0*	5.86E-02	0*	4.74E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.45E-01	0*	0*	0*	0*	1.45E-01
Exported Energy	MJ	0.00E+00	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 EIME v5.6.0.1, 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).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

MP-C-15A, MP-C-18A, and MP-C-18B have the same small footprint. MP-C-24 has a slightly larger footprint, but with 33 percent higher I/O point count than the smaller models. MP-C-36 has the same footprint as MP-C-24, but with 50 percent higher

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-00145-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH08	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	02/2018	Information and reference documents	www.pep-ecopassport.org
		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 :2014

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 »



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