

Product Environmental Profile

SpaceLogic MP-C-18B Controller

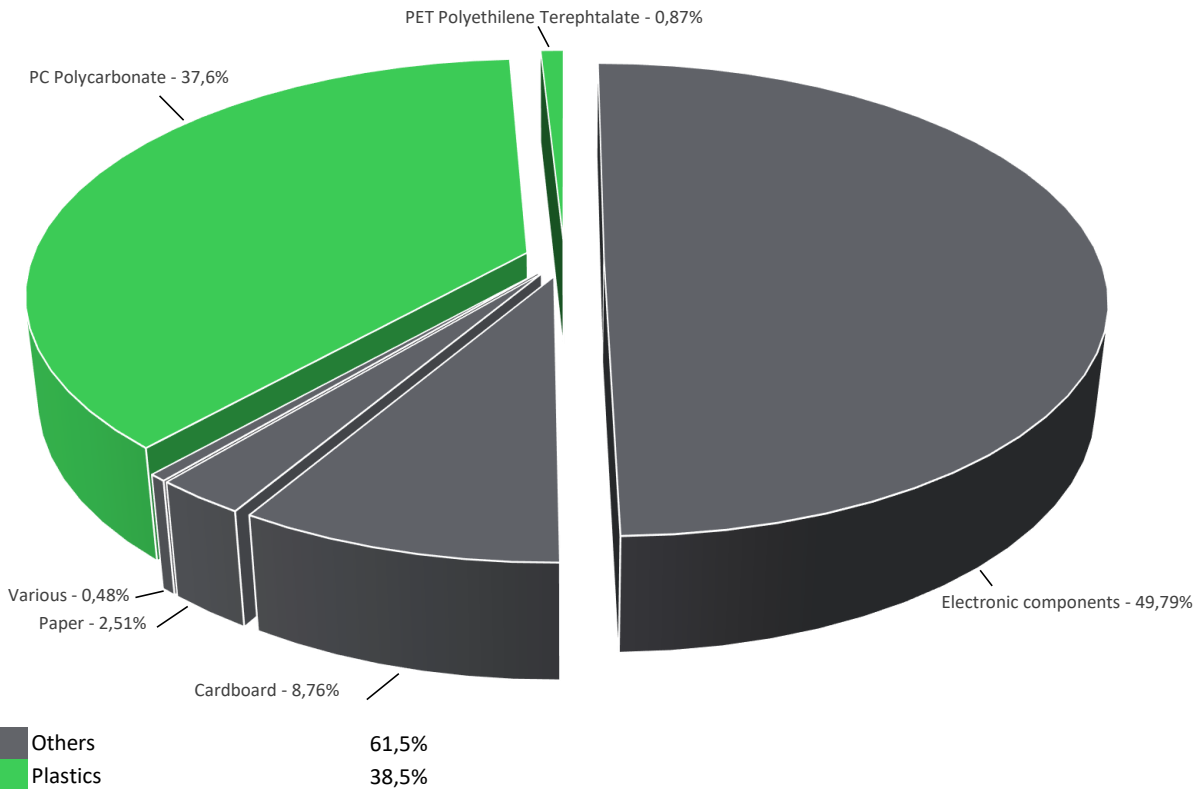


General information

Reference product	SpaceLogic MP-C-18B Controller - SXWMPC18B10001
Description of the product	<p>The SpaceLogic MP-C Controller is a flexible, multi-purpose controller applicable for HVAC system management, ideally in a plant room environment. With its variety of I/O point types it is suitable for various HVAC applications in the system. It is fully programmable, IP based and it can operate as stand-alone controller or be a part of the EcoStruxure Building Management System.</p> <p>(This document describes the different stages of the product, from manufacturing to its end of life, for example the manufacturing stage includes the production and transportation of the product and its packaging through the entire process and to the last logistics platform. This product is assembled in Riga, Latvia and distributed globally. For its end of life optimization, any dismantling or separation of parts required is carried out as mentioned in the document and in accordance with EU regulations, viz. WEEE.)</p>
Description of the range	Single product
Functional unit	To operate, monitor and regulate a variety of the HVAC system applications, such as status, temperature and flow. It is in active mode 100% of the time during its reference service lifetime of 10 years. Based on the product category "Other equipment - Active product" it also aligns with following: Other switchgear and controlgear solutions mentioned in the scope (e.g. fuses TC32, all-or-nothing relays TC94, Measuring relays and protection equipment TC95), apply the general rules of PCR and mention in the accompanying report the functional unit, the reference product characteristics, the reference lifetime and the use scenario which are applied consistently with the relevant IEC technical standards.
Specifications are:	<p>Reference service lifetime: 10 years. Operating modes: Active, 100% Typical power consumption: 7 W I/O type: 10 universal I/O, 8 digital outputs Triacs Dimensions: 110 x 153 x 64 mm</p>

Constituent materials

Reference product mass 415 g including the product, its packaging, additional elements and accessories



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website <https://www.se.com>

**Additional environmental information**

End Of Life	Recyclability potential:	0%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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**Environmental impacts**

Reference service life time	10 years		
Product category	Other equipments - Active product		
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study		
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption so it was not assessed in the modelling.		
Installation elements	This product does not require any installation operations. The end of life of packaging is included in the installation stage.		
Use scenario	The product is in active mode 100% of the time with a typical power consumption of 7W and during a reference service lifetime of 10 years.		
Time representativeness	The collected data are representative of the year 2025		
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.		
Geographical representativeness	Final assembly site	Use phase	
	Riga, Latvia	Global	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; Global, GLO Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Brazil, BR Electricity Mix; Low voltage; 2020; France, FR	No energy used	Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Canada, CA Electricity Mix; Low voltage; 2020; Argentina, AR Electricity Mix; Low voltage; 2020; Asia Pacific, APAC Electricity Mix; Low voltage; 2020; Global, GLO
		[C1 - C4]	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

Mandatory Indicators		SpaceLogic MP-C-18B Controller - SXWMPC18B10001							
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads	
Contribution to climate change	kg CO2 eq	3,18E+02	2,19E+01	3,97E-02	0*	2,95E+02	1,09E+00	0,00E+00	
Contribution to climate change-fossil	kg CO2 eq	3,17E+02	2,19E+01	3,97E-02	0*	2,94E+02	1,09E+00	0,00E+00	
Contribution to climate change-biogenic	kg CO2 eq	1,50E+00	0*	0*	5,15E-04	1,51E+00	0*	0,00E+00	
Contribution to climate change-land use and land use change	kg CO2 eq	1,74E-04	1,74E-04	5,74E-08	0*	0*	0*	0,00E+00	
Contribution to ozone depletion	kg CFC-11 eq	4,44E-06	3,28E-06	4,53E-10	0*	1,16E-06	8,92E-10	0,00E+00	
Contribution to acidification	mol H+ eq	1,51E+00	1,05E-01	0*	0*	1,40E+00	7,29E-04	0,00E+00	
Contribution to eutrophication, freshwater	kg P eq	5,54E-04	1,10E-04	1,46E-07	0*	4,39E-04	4,70E-06	0,00E+00	
Contribution to eutrophication marine	kg N eq	1,85E-01	1,13E-02	0*	0*	1,73E-01	3,53E-04	0,00E+00	
Contribution to eutrophication, terrestrial	mol N eq	2,20E+00	1,27E-01	0*	0*	2,07E+00	3,69E-03	0,00E+00	
Contribution to photochemical ozone formation - human health	kg COVNM eq	6,12E-01	3,79E-02	0*	0*	5,73E-01	8,89E-04	0,00E+00	
Contribution to resource use, minerals and metals	kg Sb eq	5,65E-03	5,60E-03	0*	0*	5,07E-05	0*	0,00E+00	
Contribution to resource use, fossils	MJ	6,46E+03	2,50E+02	6,92E-01	0*	6,21E+03	1,35E+00	0,00E+00	
Contribution to water use	m3 eq	2,66E+01	1,08E+01	0*	4,35E-03	1,57E+01	4,52E-02	0,00E+00	

Inventory flows Indicators		SpaceLogic MP-C-18B Controller - SXWMP18B10001							
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads	
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9,01E+02	2,31E+01	0*	0*	8,77E+02	0*	0,00E+00	
Contribution to use of renewable primary energy resources used as raw material	MJ	9,25E-01	9,25E-01	0*	0*	0*	0*	0,00E+00	
Contribution to total use of renewable primary energy resources	MJ	9,01E+02	2,40E+01	0*	0*	8,77E+02	0*	0,00E+00	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,45E+03	2,42E+02	6,92E-01	0*	6,21E+03	1,35E+00	0,00E+00	
Contribution to use of non renewable primary energy resources used as raw material	MJ	8,40E+00	8,40E+00	0*	0*	0*	0*	0,00E+00	
Contribution to total use of non-renewable primary energy resources	MJ	6,46E+03	2,50E+02	6,92E-01	0*	6,21E+03	1,35E+00	0,00E+00	
Contribution to use of secondary material	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to net use of freshwater	m³	6,20E-01	2,52E-01	0*	1,01E-04	3,67E-01	1,05E-03	0,00E+00	
Contribution to hazardous waste disposed	kg	8,32E+01	7,73E+01	0*	0*	5,73E+00	2,08E-01	0,00E+00	
Contribution to non hazardous waste disposed	kg	5,15E+01	5,36E+00	0*	4,72E-02	4,59E+01	1,77E-01	0,00E+00	
Contribution to radioactive waste disposed	kg	1,23E-02	2,42E-03	2,79E-06	0*	9,91E-03	7,79E-06	0,00E+00	
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to materials for recycling	kg	8,43E-03	8,43E-03	0*	0*	0*	0*	0,00E+00	
Contribution to materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to exported energy	MJ	1,07E-05	1,07E-05	0*	0*	0*	0*	0,00E+00	

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

Contribution to biogenic carbon content of the product	kg of C	0,00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	1,42E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)


Mandatory Indicators		SpaceLogic MP-C-18B Controller - SXWMP18B10001								
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]	
Contribution to climate change	kg CO2 eq	2,95E+02	0*	0*	0*	0*	0*	2,95E+02	0*	
Contribution to climate change-fossil	kg CO2 eq	2,94E+02	0*	0*	0*	0*	0*	2,94E+02	0*	
Contribution to climate change-biogenic	kg CO2 eq	1,51E+00	0*	0*	0*	0*	0*	1,51E+00	0*	
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to ozone depletion	kg CFC-11 eq	1,16E-06	0*	0*	0*	0*	0*	1,16E-06	0*	
Contribution to acidification	mol H+ eq	1,40E+00	0*	0*	0*	0*	0*	1,40E+00	0*	
Contribution to eutrophication, freshwater	kg P eq	4,39E-04	0*	0*	0*	0*	0*	4,39E-04	0*	
Contribution to eutrophication marine	kg N eq	1,73E-01	0*	0*	0*	0*	0*	1,73E-01	0*	
Contribution to eutrophication, terrestrial	mol N eq	2,07E+00	0*	0*	0*	0*	0*	2,07E+00	0*	
Contribution to photochemical ozone formation - human health	kg COVNM eq	5,73E-01	0*	0*	0*	0*	0*	5,73E-01	0*	
Contribution to resource use, minerals and metals	kg Sb eq	5,07E-05	0*	0*	0*	0*	0*	5,07E-05	0*	
Contribution to resource use, fossils	MJ	6,21E+03	0*	0*	0*	0*	0*	6,21E+03	0*	
Contribution to water use	m3 eq	1,57E+01	0*	0*	0*	0*	0*	1,57E+01	0*	

Inventory flows Indicators		SpaceLogic MP-C-18B Controller - SXWMP18B10001							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8,77E+02	0*	0*	0*	0*	0*	8,77E+02	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	8,77E+02	0*	0*	0*	0*	0*	8,77E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,21E+03	0*	0*	0*	0*	0*	6,21E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	6,21E+03	0*	0*	0*	0*	0*	6,21E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	3,67E-01	0*	0*	0*	0*	0*	3,67E-01	0*
Contribution to hazardous waste disposed	kg	5,73E+00	0*	0*	0*	0*	0*	5,73E+00	0*
Contribution to non hazardous waste disposed	kg	4,59E+01	0*	0*	0*	0*	0*	4,59E+01	0*
Contribution to radioactive waste disposed	kg	9,91E-03	0*	0*	0*	0*	0*	9,91E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	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 v6.2.4, database version 2024-01 in compliance with ISO14044, EF3,1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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-01407-V01.01-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	Information and reference documents	www.pep-ecopassport.org
Date of issue	11-2025	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal	External	X	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with NF C08-100-1:2022 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			

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Published by Schneider Electric

SCHN-01407-V01.01-EN

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11-2025