

Product Environmental Profile

MBE200D EXW-POWER-CBS





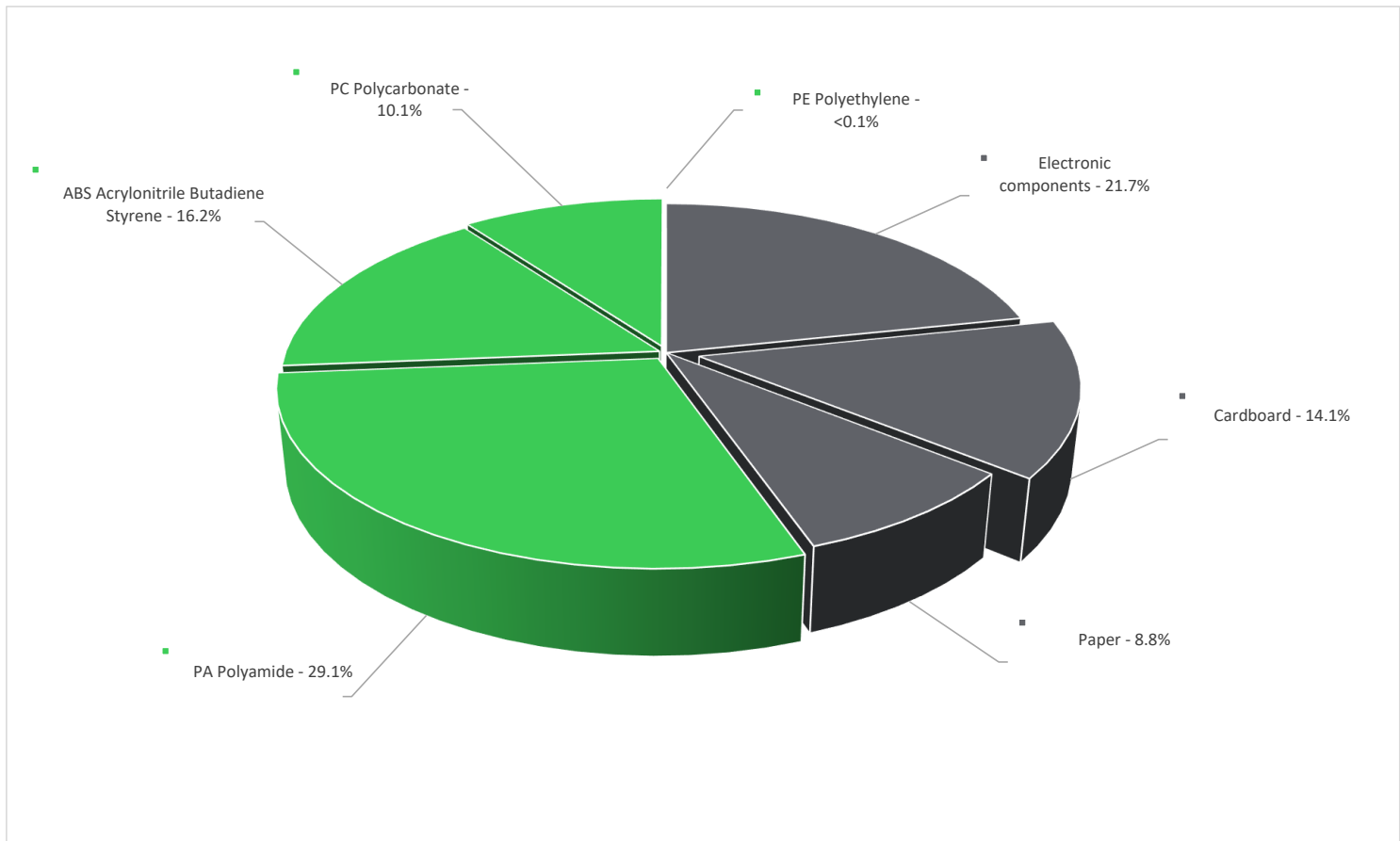
General information

Reference product	MBE200D EXW-POWER-CBS - OVA18501
Description of the product	Addressing module for ordinary devices (EN 60598-2-22), maximum load 200VA
Description of the range	Single product
Functional unit	Enable the control and surveillance of a mixed emergency lighting circuit with switched maintained and non-maintained luminaires, with a power consumption of 1.3 Watt, under a maximum load of 200 VA, operating continuously for a 10-year reference service life.
Specifications are:	<p>The integrated mains monitor function serves the monitoring of the mains voltage of a neighbouring mains sub-distribution in whose area the light is installed. If this mains voltage fails, the downstream emergency light will be switched on automatically and supplied by the mains AC voltage of the Exiway Power Control and it will switch back to normal automatically after mains restoration.</p> <p>If the emergency lighting switches to battery operation, the loads connected to the MBE200D are switched on, too. This happens during a system test and in emergency operation.</p>



Constituent materials

Reference product mass	77 g	including the product, its packaging, additional elements and accessories
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Plastics	55.4%
Metals	0.0%
Others	44.6%

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:	67%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB 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	Power Control for Emergency Lighting			
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			
Installation elements	This product does not require any installation operations.			
Use scenario	The electrical power consumed of this Power Control is 1.3 Watt in active mode 100 % of time. This function is provided for 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		End-of-life
	Pieve di Cento	Europe		Europe
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; Italy, IT	No energy used	Electricity Mix; Low voltage; 2020; Europe, EU-27	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		MBE200D EXW-POWER-CBS - OVA18501						
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	5.02E+01	3.93E+00	8.87E-02	1.81E-02	4.60E+01	1.60E-01	1.42E-01
Contribution to climate change-fossil	kg CO2 eq	4.92E+01	3.93E+00	8.87E-02	1.73E-02	4.50E+01	1.60E-01	1.36E-01
Contribution to climate change-biogenic	kg CO2 eq	1.01E+00	0*	0*	8.61E-04	1.02E+00	0*	5.58E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.15E-05	1.15E-05	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	8.92E-07	6.16E-07	7.83E-08	2.35E-10	1.97E-07	1.39E-10	1.47E-09
Contribution to acidification	mol H+ eq	2.58E-01	1.66E-02	3.86E-04	5.31E-05	2.41E-01	1.07E-04	3.20E-04
Contribution to eutrophication, freshwater	kg P eq	1.24E-04	1.31E-05	0*	4.16E-07	1.10E-04	3.67E-07	5.43E-06
Contribution to eutrophication marine	kg N eq	3.03E-02	1.89E-03	1.77E-04	2.31E-05	2.82E-02	4.85E-05	9.73E-05
Contribution to eutrophication, terrestrial	mol N eq	4.76E-01	2.12E-02	1.92E-03	1.61E-04	4.52E-01	5.33E-04	8.47E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	9.64E-02	6.21E-03	6.30E-04	3.68E-05	8.94E-02	1.27E-04	2.75E-04
Contribution to resource use, minerals and metals	kg Sb eq	4.87E-04	4.72E-04	0*	0*	1.49E-05	0*	7.15E-08
Contribution to resource use, fossils	MJ	1.15E+03	4.07E+01	1.10E+00	1.80E-01	1.10E+03	2.10E-01	2.64E+00
Contribution to water use	m3 eq	4.99E+00	1.49E+00	4.50E-03	1.40E-03	3.49E+00	9.74E-03	3.72E-02

Inventory flows Indicators		MBE200D EXW-POWER-CBS - OVA18501							
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	2.62E+02	3.62E+00	0*	0*	2.58E+02	0*	1.55E-02	
Contribution to use of renewable primary energy resources used as raw material	MJ	1.55E-01	1.55E-01	0*	0*	0*	0*	-6.19E-02	
Contribution to total use of renewable primary energy resources	MJ	2.62E+02	3.78E+00	0*	0*	2.58E+02	0*	-4.64E-02	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.15E+03	3.98E+01	1.10E+00	1.80E-01	1.10E+03	2.10E-01	2.00E+00	
Contribution to use of non renewable primary energy resources used as raw material	MJ	9.87E-01	9.87E-01	0*	0*	0*	0*	6.48E-01	
Contribution to total use of non-renewable primary energy resources	MJ	1.15E+03	4.07E+01	1.10E+00	1.80E-01	1.10E+03	2.10E-01	2.64E+00	
Contribution to use of secondary material	kg	3.78E-02	3.78E-02	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	1.16E-01	3.42E-02	1.05E-04	3.26E-05	8.16E-02	2.27E-04	8.66E-04	
Contribution to hazardous waste disposed	kg	7.76E+00	6.47E+00	0*	0*	1.27E+00	1.61E-02	1.46E-02	
Contribution to non hazardous waste disposed	kg	7.91E+00	9.16E-01	0*	7.77E-03	6.94E+00	4.43E-02	-4.75E-04	
Contribution to radioactive waste disposed	kg	2.09E-03	4.35E-04	1.77E-05	9.60E-07	1.64E-03	1.74E-06	-1.11E-06	
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to materials for recycling	kg	1.59E-03	1.59E-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	7.43E-04	1.31E-06	0*	7.42E-04	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	5.40E-03

* 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		MBE200D EXW-POWER-CBS - OVA18501							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	4.60E+01	0*	0*	0*	0*	0*	4.60E+01	0*
Contribution to climate change-fossil	kg CO2 eq	4.50E+01	0*	0*	0*	0*	0*	4.50E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	1.02E+00	0*	0*	0*	0*	0*	1.02E+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	1.97E-07	0*	0*	0*	0*	0*	1.97E-07	0*
Contribution to acidification	mol H+ eq	2.41E-01	0*	0*	0*	0*	0*	2.41E-01	0*
Contribution to eutrophication, freshwater	kg P eq	1.10E-04	0*	0*	0*	0*	0*	1.10E-04	0*
Contribution to eutrophication marine	kg N eq	2.82E-02	0*	0*	0*	0*	0*	2.82E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	4.52E-01	0*	0*	0*	0*	0*	4.52E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	8.94E-02	0*	0*	0*	0*	0*	8.94E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.49E-05	0*	0*	0*	0*	0*	1.49E-05	0*
Contribution to resource use, fossils	MJ	1.10E+03	0*	0*	0*	0*	0*	1.10E+03	0*
Contribution to water use	m3 eq	3.49E+00	0*	0*	0*	0*	0*	3.49E+00	0*

Inventory flows Indicators		MBE200D EXW-POWER-CBS - OVA18501							
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	2.58E+02	0*	0*	0*	0*	0*	2.58E+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	2.58E+02	0*	0*	0*	0*	0*	2.58E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.10E+03	0*	0*	0*	0*	0*	1.10E+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	1.10E+03	0*	0*	0*	0*	0*	1.10E+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	8.16E-02	0*	0*	0*	0*	0*	8.16E-02	0*
Contribution to hazardous waste disposed	kg	1.27E+00	0*	0*	0*	0*	0*	1.27E+00	0*
Contribution to non hazardous waste disposed	kg	6.94E+00	0*	0*	0*	0*	0*	6.94E+00	0*
Contribution to radioactive waste disposed	kg	1.64E-03	0*	0*	0*	0*	0*	1.64E-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 v6.2.5-6, 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-02026-V01.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
		Supplemented by	No PSR
Verifier accreditation N°	VH08	Information and reference documents	www.pep-ecopassport.org
Date of issue	05-2025	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 XP C08-100-1:2016 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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