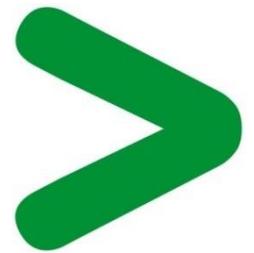


# Product Environmental Profile

## Logic/Motion Controller - Modicon M262





## General information

### Representative product

Logic/Motion Controller - Modicon M262

### Description of the range

The Modicon M262 Logic/Motion controller offer is made for performance demanding machines; M262 controllers are IIoT-ready (MQTT, HTTP, OPC UA, TLS, etc.) and combine logic, motion, and safety control applications.

> TM262L for the logic control of multiple input and output arrangements

> TM262M for the motion control of up to 16 synchronized axes, embedding a safety control application capable of attaining SIL3

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

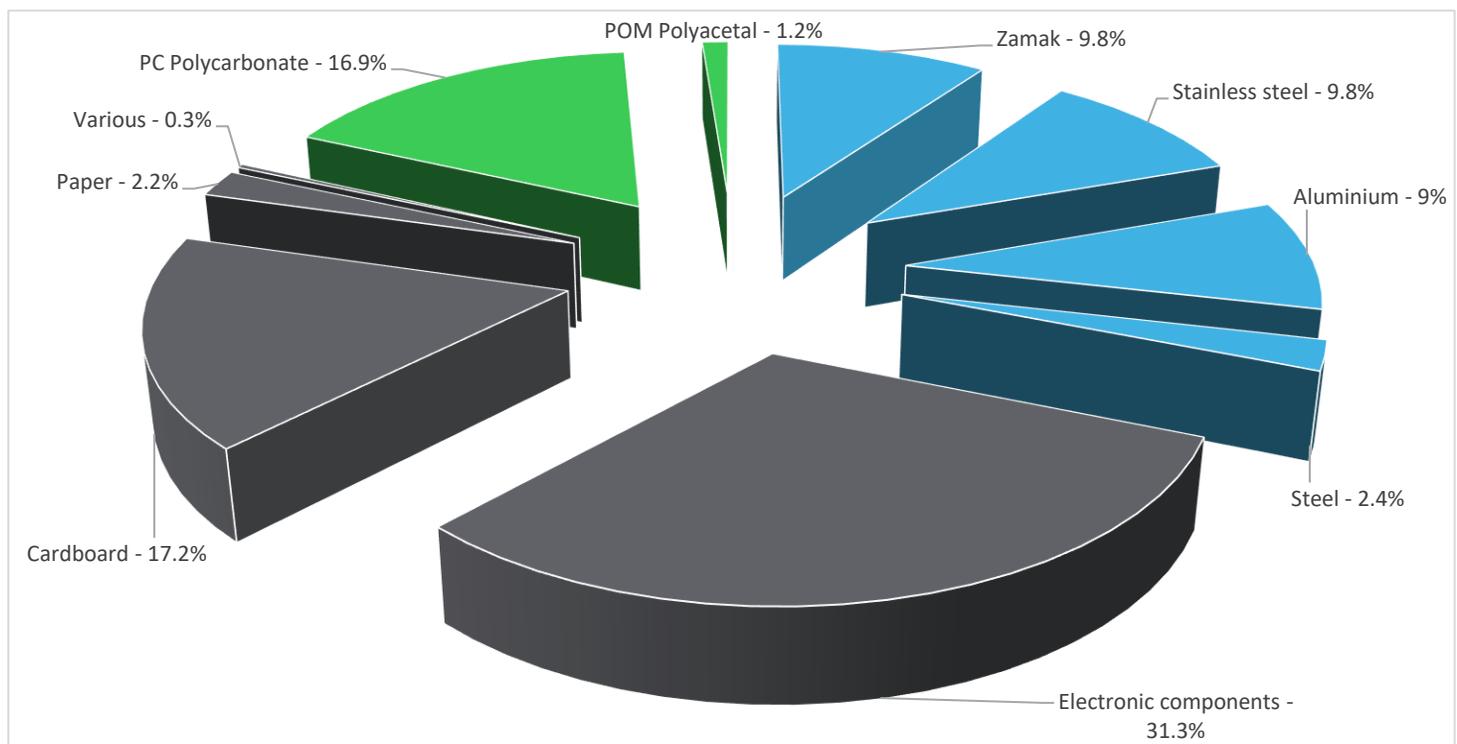
For logic control of multiple input and output arrangements (TM262L) and for motion control of up to 16 synchronized axes, embedding a safety control application capable of attaining SIL3 (TM262M) 100% of the time for 10 years.



## Constituent materials

### Reference product mass

828 g including the product, its packaging and additional elements and accessories



Plastics	18.1%
Metals	31.0%
Others	51.0%

## 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>

## Additional environmental information

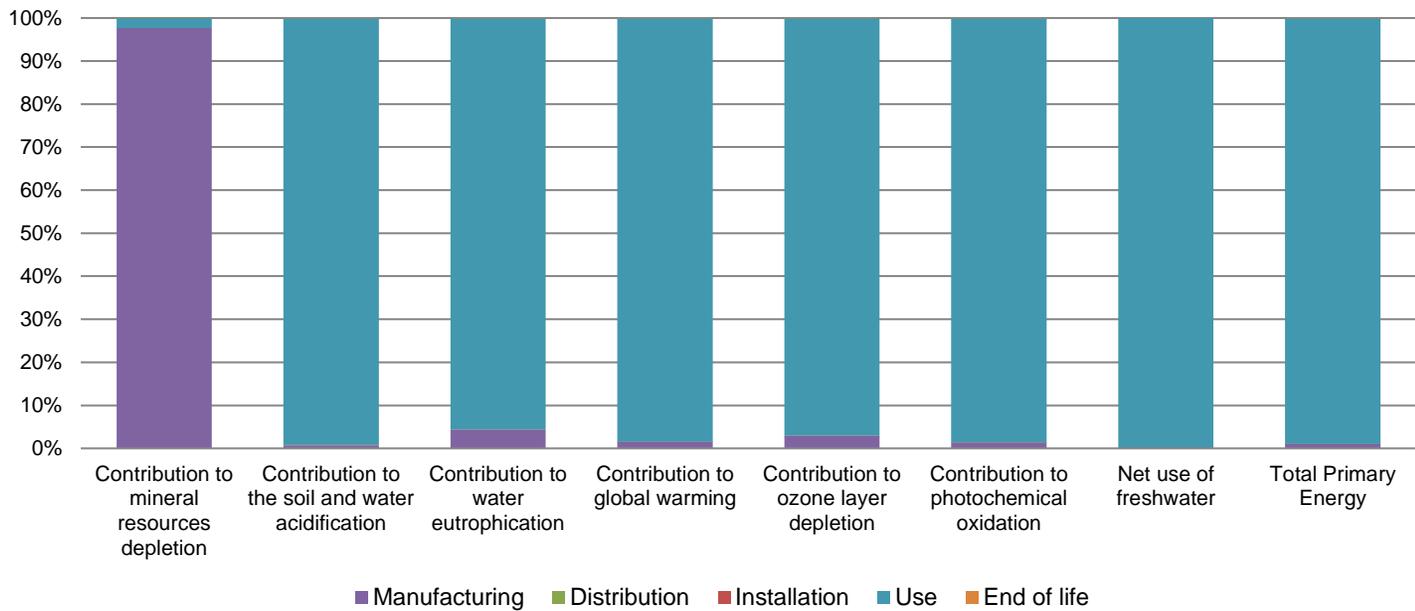
The Logic/Motion Controller - Modicon M262 presents the following relevant environmental aspects

<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 159.5 g, consisting of cardboard (89%) and paper (11%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	TM262M35MESS8T does not require any installation operations.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains electronic cards (225g) 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  <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>39%</b> 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

<b>Reference life time</b>	10 years			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	The product is in active mode 100% of the time with a power use of 27.6W for 10 years			
<b>Geographical representativeness</b>	Europe			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Indonesia	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		Logic/Motion Controller - Modicon M262 - TM262M35MESS8T					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.48E-03	4.38E-03	0*	0*	1.03E-04	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	4.98E+00	3.87E-02	0*	0*	4.94E+00	0*
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	3.12E-01	1.35E-02	1.12E-04	0*	2.98E-01	1.42E-04
Contribution to global warming	kg CO <sub>2</sub> eq	1.20E+03	1.87E+01	0*	0*	1.18E+03	4.27E-01
Contribution to ozone layer depletion	kg CFC11 eq	7.96E-05	2.37E-06	0*	0*	7.72E-05	1.53E-08
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	2.75E-01	3.77E-03	3.48E-05	0*	2.72E-01	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4.30E+03	0*	0*	0*	4.30E+03	0*
Total Primary Energy	MJ	2.39E+04	2.46E+02	0*	0*	2.37E+04	0*



Optional indicators		Logic/Motion Controller - Modicon M262 - TM262M35MESS8T					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.36E+04	1.81E+02	1.50E+00	0*	1.34E+04	0*
Contribution to air pollution	m <sup>3</sup>	5.33E+04	2.34E+03	0*	0*	5.10E+04	9.63E+00
Contribution to water pollution	m <sup>3</sup>	5.08E+04	1.88E+03	1.76E+01	0*	4.89E+04	1.93E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	6.77E-02	6.77E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.02E+03	9.29E+00	0*	0*	3.01E+03	0*
Total use of non-renewable primary energy resources	MJ	2.09E+04	2.36E+02	0*	0*	2.07E+04	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.01E+03	6.47E+00	0*	0*	3.01E+03	0*
Use of renewable primary energy resources used as raw material	MJ	2.82E+00	2.82E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.09E+04	2.28E+02	0*	0*	2.07E+04	0*
Use of non renewable primary energy resources used as raw material	MJ	7.76E+00	7.76E+00	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	1.66E+01	1.47E+01	0*	0*	6.18E-01	1.32E+00
Non hazardous waste disposed	kg	4.42E+03	5.52E+00	0*	0*	4.42E+03	0*
Radioactive waste disposed	kg	2.95E+00	3.43E-03	0*	0*	2.95E+00	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.78E-01	5.64E-02	0*	1.59E-01	0*	2.63E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.12E-01	0*	0*	0*	0*	1.12E-01
Exported Energy	MJ	5.04E-04	4.73E-05	0*	4.57E-04	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 use 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.

Depending on the impact analysis, the environmental indicators (without Abiotic Depletion) of other products in this family may be proportionally extrapolated by the energy consumption values. For Abiotic Depletion, impact may be proportionally extrapolated by the mass of the product.

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-00455-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH33	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	06/2019	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 :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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