

Product Environmental Profile

DIN Ethernet





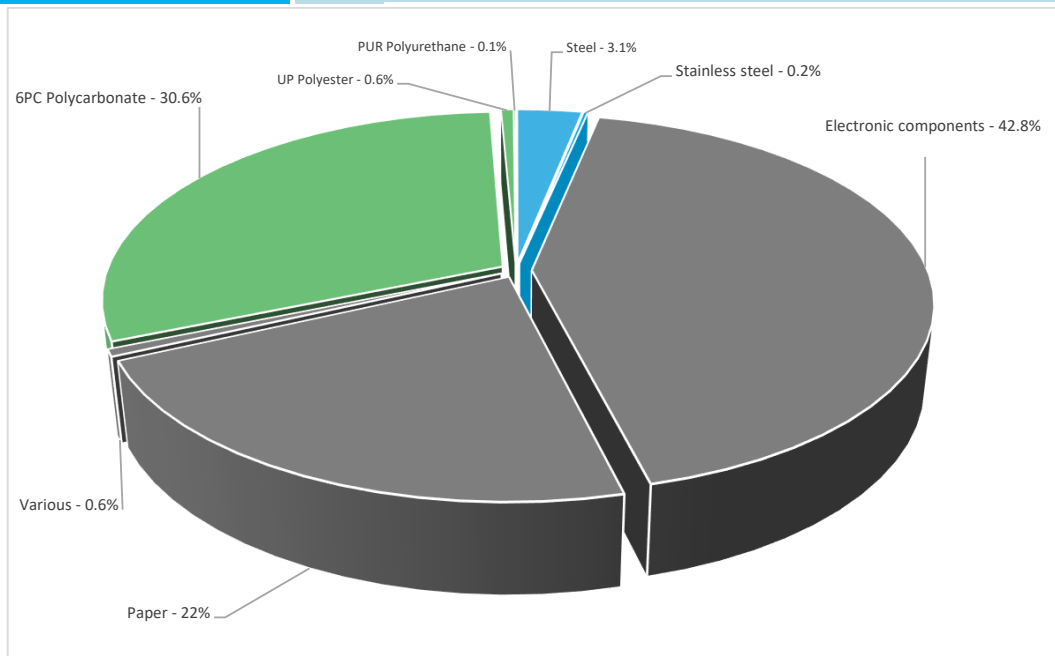
General information

Representative product	DIN Ethernet - METSEEM3570AX
Description of the product	Metering Product :Voltage, Current, Power & Energy measurement, Power Quality measurement, Data Logging, Ethernet communication
Functional unit	1.Bidirectional Energy measurement, External current sensors, Supports Multi tariff, Demand Low-voltage DC control power 2.AC/DC Power Supply with 24Vdc Output



Constituent materials

Reference product mass	549 g	including the product, its packaging and additional elements and accessories
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Plastics	31.3%
Metals	3.3%
Others	65.4%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the 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 DIN Ethernet presents the following relevant environmental aspects

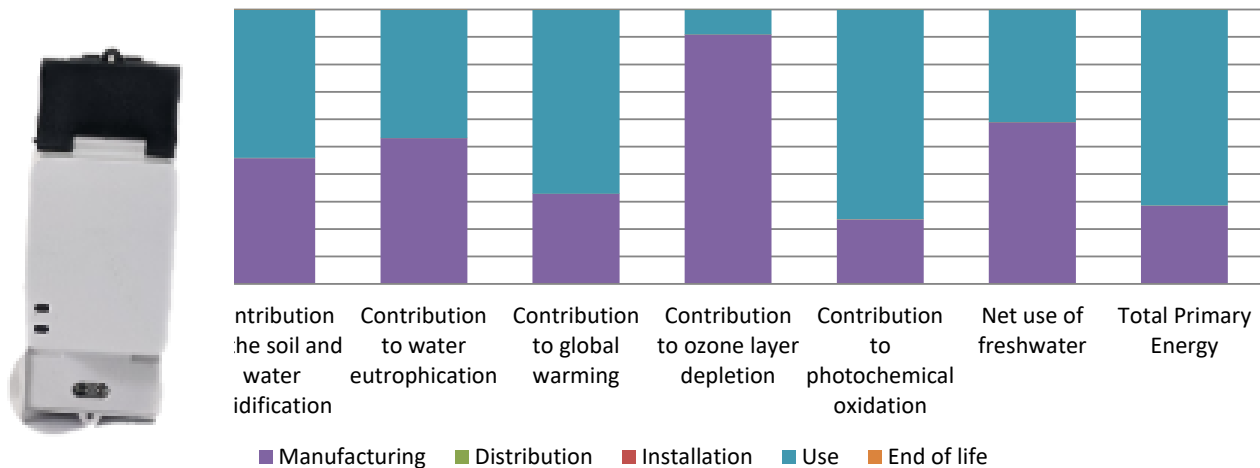
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified		
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive		
	Packaging weight is 104.3 g, consisting of cardboard & paper (90 %) and plastic (10 %). Product distribution optimised by setting up local distribution centres		
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 components (241.36 g) 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:	18%	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	10 years			
Product category	Other equipments - Active product			
Installation elements	This product does not require any special components during installation. Disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).			
Use scenario	In Active mode power consumption is 3.6W In Off state power consumption is 0.03 W In Sleep Mode power consumption is 2.97			
Geographical representativeness	Global			
Technological representativeness	Metering Product :Voltage, Current, Power & Energy measurement, Power Quality measurement, Data Logging, Ethernet communication			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: INDIA	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US

Compulsory indicators		DIN ETHERNET					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.99E-03	4.99E-03	0*	0*	2.50E-06	0*
Contribution to the soil and water acidification	kg SO2 eq	3.92E-01	1.80E-01	3.23E-04	0*	2.12E-01	2.47E-04
Contribution to water eutrophication	kg PO43- eq	1.20E-01	6.37E-02	7.45E-05	0*	5.60E-02	1.26E-04
Contribution to global warming	kg CO2 eq	3.27E+02	1.08E+02	7.08E-02	0*	2.19E+02	3.98E-01
Contribution to ozone layer depletion	kg CFC11 eq	5.54E-05	5.04E-05	0*	0*	5.00E-06	1.41E-08
Contribution to photochemical oxidation	kg C2H4 eq	6.31E-02	1.49E-02	2.31E-05	0*	4.82E-02	2.04E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	9.40E-01	5.53E-01	0*	0*	3.86E-01	2.04E-04
Total Primary Energy	MJ	4.97E+03	1.42E+03	1.00E+00	0*	3.55E+03	1.06E+00



Optional indicators		DIN ETHERNET					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4.11E+03	1.29E+03	9.95E-01	0*	2.83E+03	8.62E-01
Contribution to air pollution	m³	3.29E+04	7.76E+03	0*	0*	2.51E+04	7.87E+00
Contribution to water pollution	m³	2.26E+04	1.27E+04	1.16E+01	0*	9.86E+03	1.68E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.22E-02	1.22E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.52E+02	1.42E+01	0*	0*	1.37E+02	0*
Total use of non-renewable primary energy resources	MJ	4.81E+03	1.40E+03	1.00E+00	0*	3.41E+03	1.06E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.49E+02	1.21E+01	0*	0*	1.37E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2.10E+00	2.10E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.80E+03	1.39E+03	1.00E+00	0*	3.41E+03	1.06E+00
Use of non renewable primary energy resources used as raw material	MJ	1.01E+01	1.01E+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	4.15E+01	2.80E+01	0*	0*	1.24E+01	1.08E+00
Non hazardous waste disposed	kg	4.05E+01	8.76E+00	0*	0*	3.17E+01	4.13E-03
Radioactive waste disposed	kg	2.40E-02	1.71E-02	0*	0*	6.87E-03	7.20E-06

Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.15E-01	3.22E-02	0*	1.01E-01	0*	8.16E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.09E-01	0*	0*	0*	0*	1.09E-01
Exported Energy	MJ	3.26E-04	3.68E-05	0*	2.89E-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 Modify manually the text to mention the equal impacting phases 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.

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		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 »			



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