Product Environmental Profile

Wireless to Modbus TCP/IP Concentrator









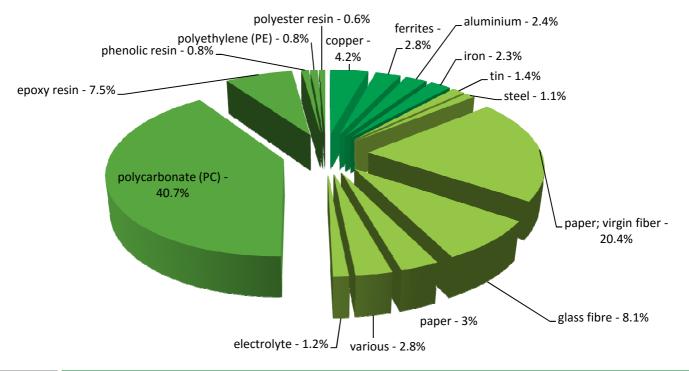
General information

Representative product	Wireless to Modbus TCP/IP Concentrator -A9XMWA20
Description of the product	Connect the center connection point of the terminal, it elaborates and exposes IP services based on the data available on B+B- bus, targeting Energy Monitoring and Load Control functions. It also keeps basic historical data of consumptions seen by the EM5
Functional unit	To communicate with a EM5, through B+B- bus and via Wired Ethernet only for 10 years

Constituent materials

Reference product mass

166.16 including the product, its packaging and additional elements and accessories



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	Wireless to Modbus TCP/IP Concentrator presents the following relevent environmental aspects								
Design									
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 33.2 g, consisting of cardboard 32.7g,paper 0.4g								
	Product distribution optimised by setting up local distribution centres								
Installation	0								
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 two electronic card large than 10 cm^2 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	Active products					
Installation elements	No special components needed					
Use scenario	Consumed power is 2 W 2 % or of the time in Sleep mode and			andby mode, W 0 %		
Geographical representativeness	China					
Technological representativeness	Connect the center connection point of the terminal, it elaborates and exposes IP services based on the data available on B+B- bus, targeting Energy Monitoring and Load Control functions. It also keeps basic historical					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: China(IDT)	Electricity mix AC; consumption mix, at consumer; 220V; ES	Electricity mix AC; consumption mix, at consumer; 220V; ES	Electricity mix AC; consumption mix, at consumer; 220V; ES		

Compulsory indicators Wireless to Modbus TCP/IP Concentra			oncentrator -	A9XMWA20			
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.77E-04	1.77E-04	0*	0*	2.36E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.50E-02	4.57E-03	1.56E-04	9.96E-06	1.02E-02	4.43E-05

Contribution to water eutrophication	ka DO 3- aa	3.71E-03	9.12E-04	3.60E-05	2.36E-06	2.74E-03	1.71E-0
ontribution to water eutrophication	kg PO ₄ ³⁻ eq	3.7 IE-03	9.12E-04	3.00⊑-05	2.30⊑-00	2.74E-03	1./ IE-(
contribution to global warming	kg CO ₂ eq	1.44E+01	2.48E+00	3.40E-02	3.17E-03	1.18E+01	4.55E-
Contribution to ozone layer depletion	kg CFC11 eq	1.51E-06	2.20E-07	0*	2.61E-10	1.29E-06	2.25E-0
Contribution to photochemical oxidation	kg C₂H₄ eq	3.56E-03	5.40E-04	1.14E-05	1.05E-06	3.01E-03	3.99E-0
desources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of L
let use of freshwater	m3	3.66E-02	1.11E-02	0*	3.88E-06	2.55E-02	2.77E-0
otal Primary Energy	MJ	3.08E+02	4.25E+01	4.78E-01	5.44E-02	2.65E+02	2.25E-0
mineral the soil and water		ribution to (ontribution to hotochemical oxidation	Net use of freshwater		

Optional indicators	Wireless to Modbus TCP/IP Concentrator - A9XMWA20						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.13E+02	3.20E+01	4.75E-01	4.49E-02	1.81E+02	1.88E-01
Contribution to air pollution	m³	1.57E+03	2.52E+02	1.63E+00	3.51E-01	1.32E+03	1.42E+00
Contribution to water pollution	m³	1.22E+03	6.48E+02	5.56E+00	3.75E-01	5.60E+02	2.44E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.52E-03	1.52E-03	0*	0*	0*	0*

Total use of renewable primary energy resources	MJ	1.00E+00	9.99E-01	6.37E-04	0*	0*	1.96E-04
Total use of non-renewable primary energy resources	MJ	3.07E+02	4.15E+01	4.77E-01	5.43E-02	2.65E+02	2.25E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.16E-01	4.16E-01	6.37E-04	5.40E-05	0*	1.96E-04
Use of renewable primary energy resources used as raw material	MJ	5.83E-01	5.83E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.04E+02	3.85E+01	4.77E-01	5.43E-02	2.65E+02	2.25E-01
Use of non renewable primary energy resources used as raw material	MJ	2.98E+00	2.98E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
USE OF HOLL LEHE WADIE SECOLIDALY TUELS	IVIJ	0.00E+00	U"	U	U	U	U
Use of renewable secondary fuels	MJ	0.00E+00 0.00E+00	0*	0*	0*	0*	0*
·							
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels Waste categories	MJ Unit	0.00E+00 Total	0* Manufacturing	0* Distribution	0* Installation	0* Use	0* End of Life
Use of renewable secondary fuels Waste categories Hazardous waste disposed	MJ Unit kg	0.00E+00 Total 2.13E+00	0* Manufacturing 5.76E-01	0* Distribution 0*	0* Installation 6.65E-02	0* Use 1.26E+00	0* End of Life 2.34E-01
Use of renewable secondary fuels Waste categories Hazardous waste disposed Non hazardous waste disposed	MJ Unit kg kg	0.00E+00 Total 2.13E+00 1.30E+00	0* Manufacturing 5.76E-01 2.51E-01	0* Distribution 0* 1.20E-03	0* Installation 6.65E-02 1.49E-04	0* Use 1.26E+00 1.05E+00	0* End of Life 2.34E-01 5.56E-04
Use of renewable secondary fuels Waste categories Hazardous waste disposed Non hazardous waste disposed Radioactive waste disposed	MJ Unit kg kg kg	0.00E+00 Total 2.13E+00 1.30E+00 1.25E-03	0* Manufacturing 5.76E-01 2.51E-01 1.66E-04	0* Distribution 0* 1.20E-03 8.56E-07	0* Installation 6.65E-02 1.49E-04 2.45E-07	0* Use 1.26E+00 1.05E+00 1.08E-03	0* End of Life 2.34E-01 5.56E-04 1.28E-06
Use of renewable secondary fuels Waste categories Hazardous waste disposed Non hazardous waste disposed Radioactive waste disposed Other environmental information	MJ Unit kg kg kg Unit	0.00E+00 Total 2.13E+00 1.30E+00 1.25E-03 Total	0* Manufacturing 5.76E-01 2.51E-01 1.66E-04 Manufacturing	0* Distribution 0* 1.20E-03 8.56E-07 Distribution	0* Installation 6.65E-02 1.49E-04 2.45E-07 Installation	0* Use 1.26E+00 1.05E+00 1.08E-03 Use	0* End of Life 2.34E-01 5.56E-04 1.28E-06 End of Life
Use of renewable secondary fuels Waste categories Hazardous waste disposed Non hazardous waste disposed Radioactive waste disposed Other environmental information Materials for recycling	MJ Unit kg kg kg kg kg	0.00E+00 Total 2.13E+00 1.30E+00 1.25E-03 Total 9.15E-03	0* Manufacturing 5.76E-01 2.51E-01 1.66E-04 Manufacturing 2.38E-04	0* Distribution 0* 1.20E-03 8.56E-07 Distribution 0*	0* Installation 6.65E-02 1.49E-04 2.45E-07 Installation 0*	0* Use 1.26E+00 1.05E+00 1.08E-03 Use 0*	0* End of Life 2.34E-01 5.56E-04 1.28E-06 End of Life 8.92E-03

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

Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

The use 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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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)

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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