

Product Environmental Profile

Wiser MPR





General information

Representative product

Wiser MPR - EER31120

Description of the product

The main purpose of the Wiser EM5 Kit (Meter EER31120) is to show the consumption of a dwelling according to the 5 usages mentioned in the regulation (heating, sanitary hot water, cooling, sockets and others)

Functional unit

The Wiser MPR receives information on waste, gas and calorie consumption from Wiser MPE pulse emitters via Radio and then communicates that information to the Wiser EM5 via a bus interface

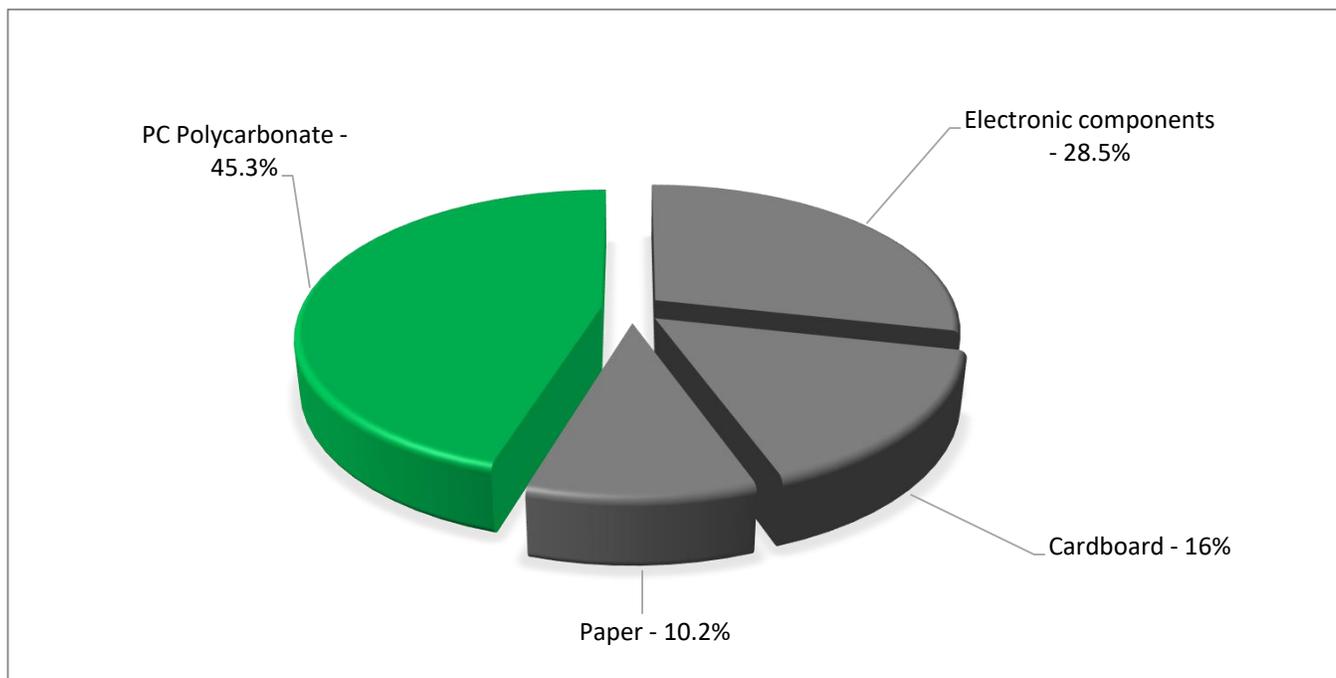
- The reference lifetime: over 10 years
- Any relevant specs: at 3.3VDC/24VDC
- With the applicable standards: with IP40/IK06 protection ratings and according to IEC 61326-1(2005), ETSI EN 300 220-2(V2.3.1,2010), ETSI EN 301 489-3(2010)



Constituent materials

Reference product mass

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



Plastics	45.3%
Metals	0.0%
Others	54.7%



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 EU 2015/863) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE, Bis(2-ethylhexyl) phthalate -DEHP, Butyl benzyl 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 Wiser MPR presents the following relevant environmental aspects

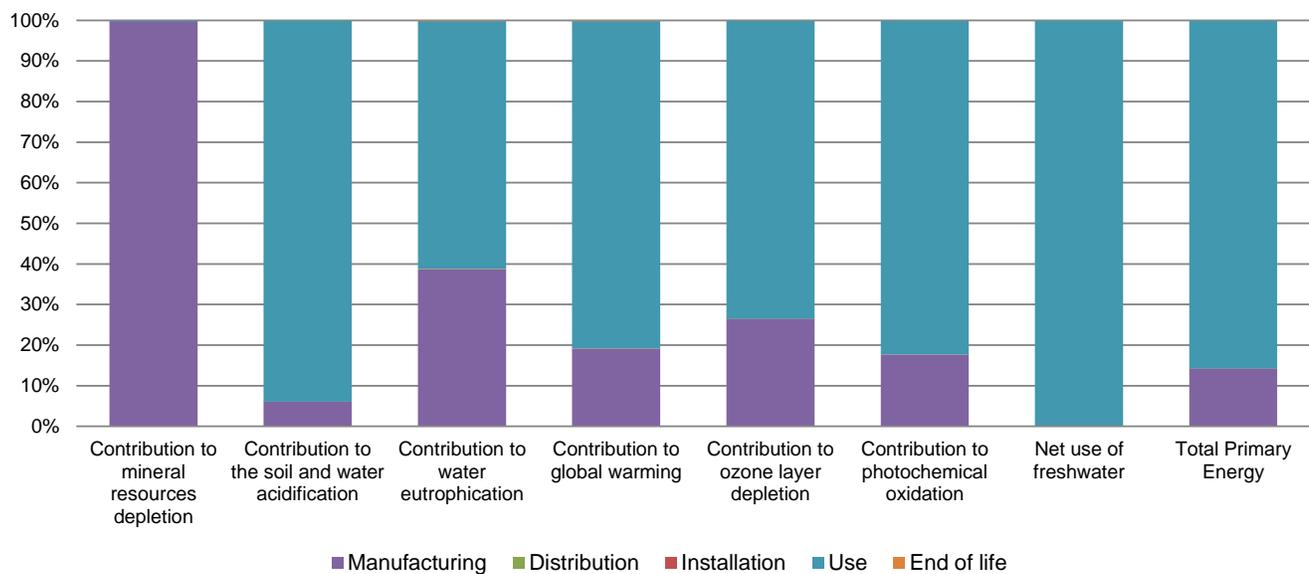
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 19.6 g, consisting of cardboard (61%), Paper(39%)
Installation	Ref EER31120 does not require any installation operations.
Use	The product does not require special maintenance operations.
End of life	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains electronic card (20.33g) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>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</p> <p>http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</p> <p>Recyclability potential: 60% 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).</p>



Environmental impacts

Reference life time	10 years			
Product category	Other equipments - Active product			
Installation elements	No special components needed			
Use scenario	The electrical power consumed by the Wiser EM5 kit is 0.5W. It is 0.5 W in 100% active mode for EER31120			
Geographical representativeness	Europe			
Technological representativeness	The main purpose of the Wiser EM5 Kit (Meter EER31120) is to show the consumption of a dwelling according to the 5 usages mentioned in the regulation (heating, sanitary hot water, cooling, sockets and others)			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: France	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		Wiser MPR - EER31120					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.23E-03	1.23E-03	0*	0*	1.86E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	9.54E-02	5.76E-03	4.47E-05	0*	8.95E-02	2.56E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	8.85E-03	3.42E-03	1.03E-05	1.07E-06	5.40E-03	1.20E-05
Contribution to global warming	kg CO ₂ eq	2.66E+01	5.10E+00	9.79E-03	0*	2.15E+01	3.63E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.90E-06	5.04E-07	0*	0*	1.40E-06	1.30E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	5.98E-03	1.05E-03	3.19E-06	0*	4.92E-03	2.20E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	7.78E+01	2.21E-02	0*	0*	7.78E+01	0*
Total Primary Energy	MJ	5.00E+02	7.10E+01	1.38E-01	0*	4.29E+02	1.12E-01



Optional indicators		Wiser MPR - EER31120					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.94E+02	5.06E+01	1.38E-01	0*	2.44E+02	9.15E-02
Contribution to air pollution	m³	1.43E+03	5.04E+02	4.17E-01	0*	9.24E+02	8.04E-01
Contribution to water pollution	m³	1.28E+03	3.89E+02	1.61E+00	1.61E-01	8.86E+02	1.63E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.54E-04	4.54E-04	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	5.59E+01	1.40E+00	0*	0*	5.45E+01	0*
Total use of non-renewable primary energy resources	MJ	4.44E+02	6.96E+01	1.38E-01	0*	3.74E+02	1.12E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.55E+01	1.03E+00	0*	0*	5.45E+01	0*
Use of renewable primary energy resources used as raw material	MJ	3.66E-01	3.66E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.43E+02	6.81E+01	1.38E-01	0*	3.74E+02	1.12E-01
Use of non renewable primary energy resources used as raw material	MJ	1.41E+00	1.41E+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	1.64E+00	1.53E+00	0*	0*	1.12E-02	9.89E-02
Non hazardous waste disposed	kg	8.13E+01	1.33E+00	0*	0*	8.00E+01	0*
Radioactive waste disposed	kg	5.41E-02	6.82E-04	0*	0*	5.34E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5.82E-02	5.37E-03	0*	1.95E-02	0*	3.33E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	9.59E-03	0*	0*	0*	0*	9.59E-03
Exported Energy	MJ	6.20E-05	5.83E-06	0*	5.62E-05	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).

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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