

Product Environmental Profile

RADAR MONITOR

FLEXIBLE PROBE RADAR MONITORS





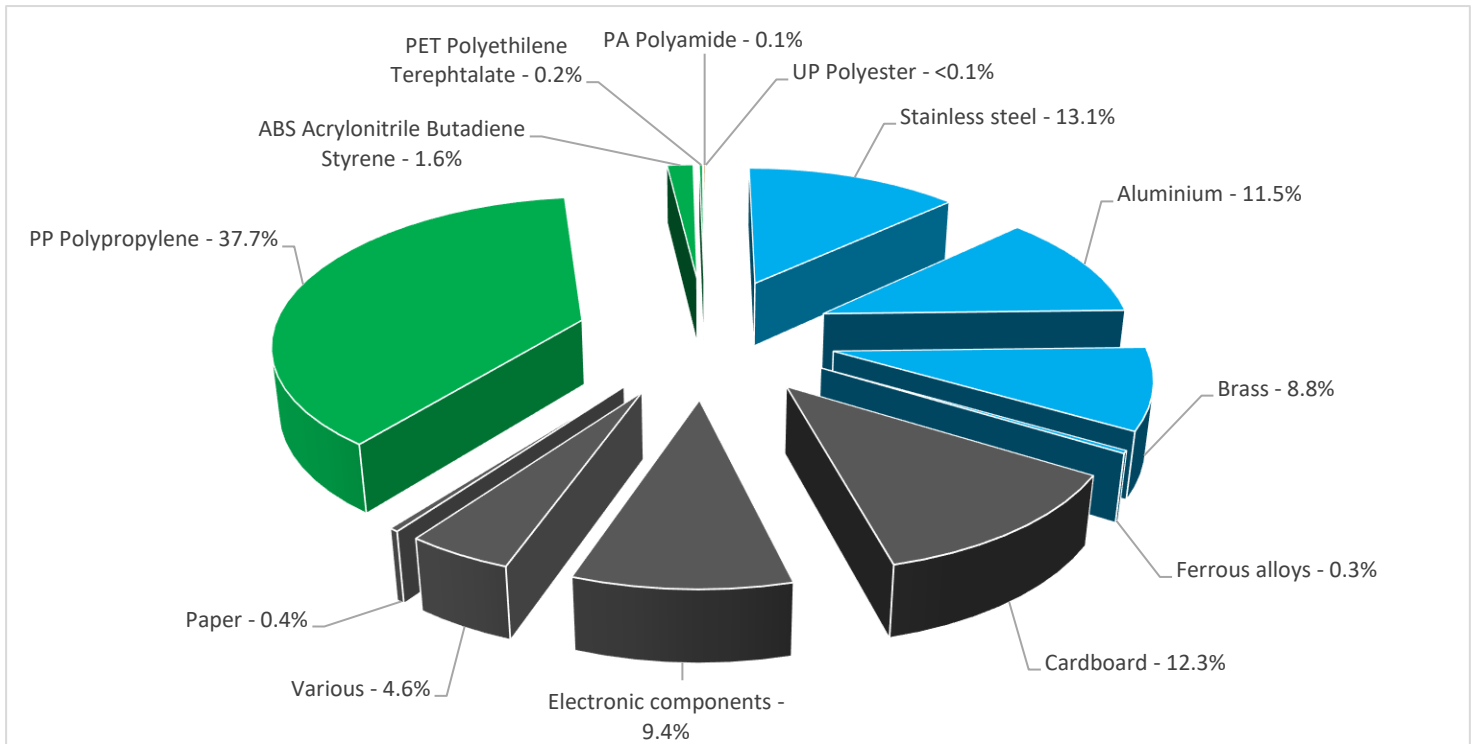
General information

Representative product	RADAR MONITOR - G4RM192BB0
Description of the product	Radar Monitor detects level, temperature within the Monitor housing, battery condition, error codes and broadcasts this information to the system's Gateway.
Description of the range	FLEXIBLE PROBE RADAR MONITORS 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	The Radar Monitor measures liquid level and transmits the data to a gateway using a radio signal over a period of 10 years with 0.3 W of power consumption at 100% usage rate.



Constituent materials

Reference product mass 730 g including the product, its packaging and additional elements and accessories



Plastics	39,6%
Metals	33,7%
Others	26,7%



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 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.

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 RADAR MONITOR presents the following relevant environmental aspects

Manufacturing	Manufactured at a production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive. Packaging weight is 95.6 g, consisting of Carton Board (98.5%) PET film (1.5%)
Installation	Installation will vary based on the client's specific situation. It is not expected to involve significant physical operations or materials.
Use	Maintenance includes recommended replacements of components associated with sample handling or mechanical operating components.
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 boards (35.4g) and Batteries (34g) 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: 68% 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>

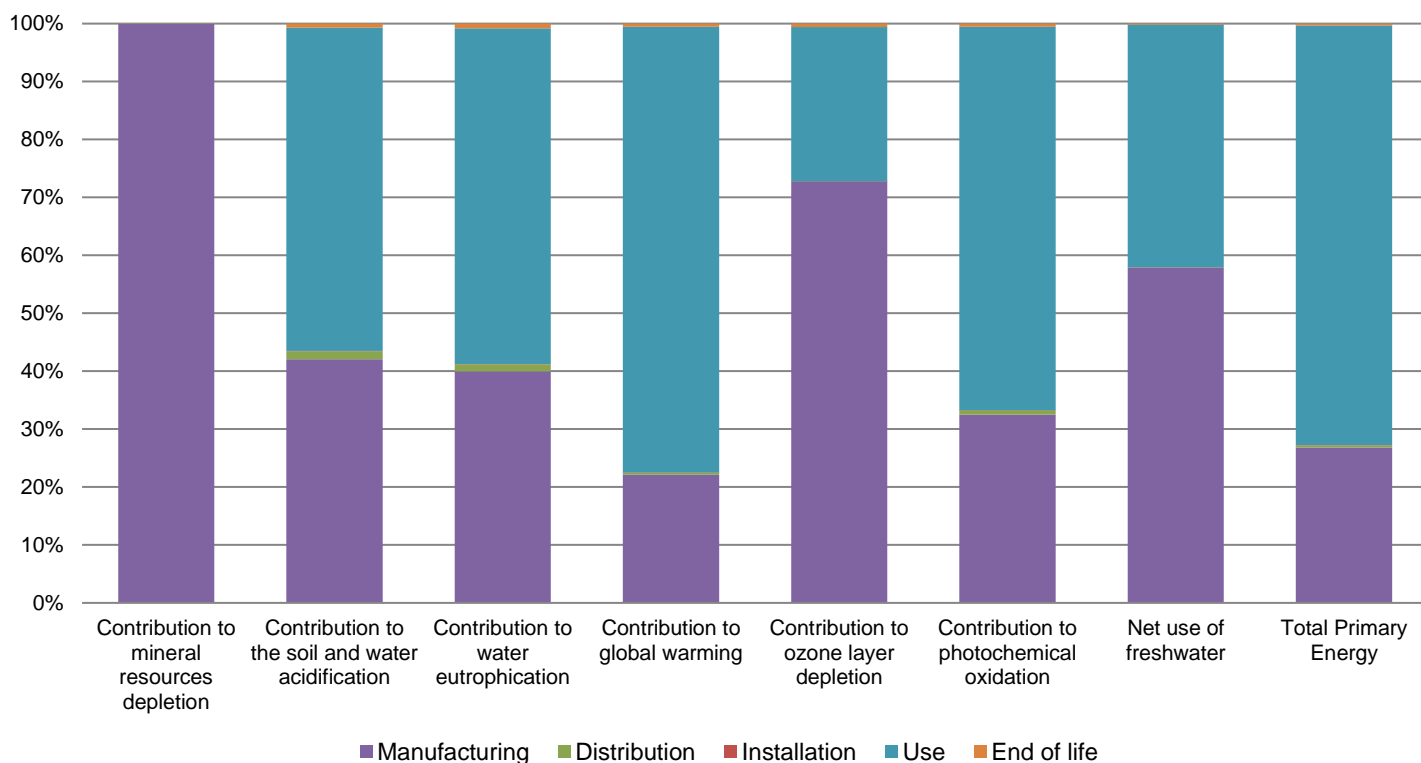


Environmental impacts

Reference life time	10 years		
Product category	Other equipments - Active product		
Installation elements	Transport and end of life of packaging accounted for during installation.		
Use scenario	The product is in active mode 100% of the time with a power use of 0.3 W for 10 years.		
Geographical representativeness	USA		
Technological representativeness	Radar Monitor detects level, temperature within the Monitor housing, battery condition, error codes and broadcasts this information to the system's Gateway.		
Energy model used	Manufacturing	Installation	Use
	Energy model used: USA	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US
			End of life
			Electricity mix; AC; consumption mix, at consumer; 120V; US

Compulsory indicators		RADAR MONITOR - G4RM192BB0					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1,35E-03	1,35E-03	0*	0*	1,79E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	3,12E-02	1,31E-02	4,30E-04	2,18E-05	1,74E-02	2,24E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	7,93E-03	3,17E-03	9,91E-05	5,71E-06	4,59E-03	6,47E-05
Contribution to global warming	kg CO ₂ eq	2,37E+01	5,23E+00	9,42E-02	5,24E-03	1,82E+01	1,30E-01
Contribution to ozone layer depletion	kg CFC11 eq	1,24E-06	9,03E-07	1,91E-10	0*	3,30E-07	7,53E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	4,22E-03	1,37E-03	3,07E-05	1,63E-06	2,79E-03	2,36E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	7,67E-02	4,44E-02	8,43E-06	0*	3,22E-02	1,24E-04
Total Primary Energy	MJ	3,38E+02	9,08E+01	1,33E+00	6,82E-02	2,45E+02	1,14E+00

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Optional indicators		RADAR MONITOR - G4RM192BB0					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2,82E+02	5,84E+01	1,32E+00	6,75E-02	2,22E+02	8,93E-01
Contribution to air pollution	m³	2,47E+03	9,08E+02	4,01E+00	0*	1,55E+03	8,80E+00
Contribution to water pollution	m³	1,34E+03	4,13E+02	1,55E+01	7,90E-01	8,97E+02	9,61E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,96E-01	1,96E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,70E+01	2,33E+00	1,77E-03	0*	1,47E+01	0*
Total use of non-renewable primary energy resources	MJ	3,21E+02	8,84E+01	1,33E+00	6,80E-02	2,30E+02	1,14E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,68E+01	2,11E+00	1,77E-03	0*	1,47E+01	0*
Use of renewable primary energy resources used as raw material	MJ	2,17E-01	2,17E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3,10E+02	7,69E+01	1,33E+00	6,80E-02	2,30E+02	1,14E+00
Use of non renewable primary energy resources used as raw material	MJ	1,15E+01	1,15E+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	1,31E+01	1,17E+01	0*	0*	4,87E-01	9,18E-01
Non hazardous waste disposed	kg	6,11E+00	3,31E+00	3,35E-03	1,82E-03	2,78E+00	8,46E-03
Radioactive waste disposed	kg	2,52E-03	2,22E-03	2,38E-06	0*	2,86E-04	6,17E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5,93E-01	5,80E-02	0*	9,41E-02	0*	4,41E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,87E-02	0*	0*	0*	0*	1,87E-02
Exported Energy	MJ	2,97E-04	2,71E-05	0*	2,70E-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, for mineral resource depletion, the environmental indicators of other products in this family may be proportional extrapolated by mass of the product. For Soil and Water acidification and Water Eutrophication the impacts may be proportional at 40% by the mass of the product and 60% the energy. For Global warming and Photochemical Oxidation, the impacts may be proportional at 20% by the mass of the product and 80% the energy. For Photochemical Oxidation, the impacts may be proportional at 30% by the mass of the product and 70% the energy. For Ozone Layer Depletion the impact may be proportional at 70% by the mass of the product and 30% the energy. For Net use of freshwater, the impact may be proportional at 55% by the mass of the product and 45% the energy. For Total Primary Energy, the impact may be proportional at 25% by the mass of the product and 75% the energy.

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	ENVPEP2102001_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	02/2021		
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

Schneider Electric

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Country Customer Care Center:

<http://www2.schneider-electric.com/sites/corporate/en/support/operations/local-operations/local-operations.page>

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Published by Schneider Electric

ENVPEP2102001_V1

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02/2021