

Product Environmental Profile

ENCOMPASS RF PRESSURE MONITOR

RF PRESSURE MONITORS





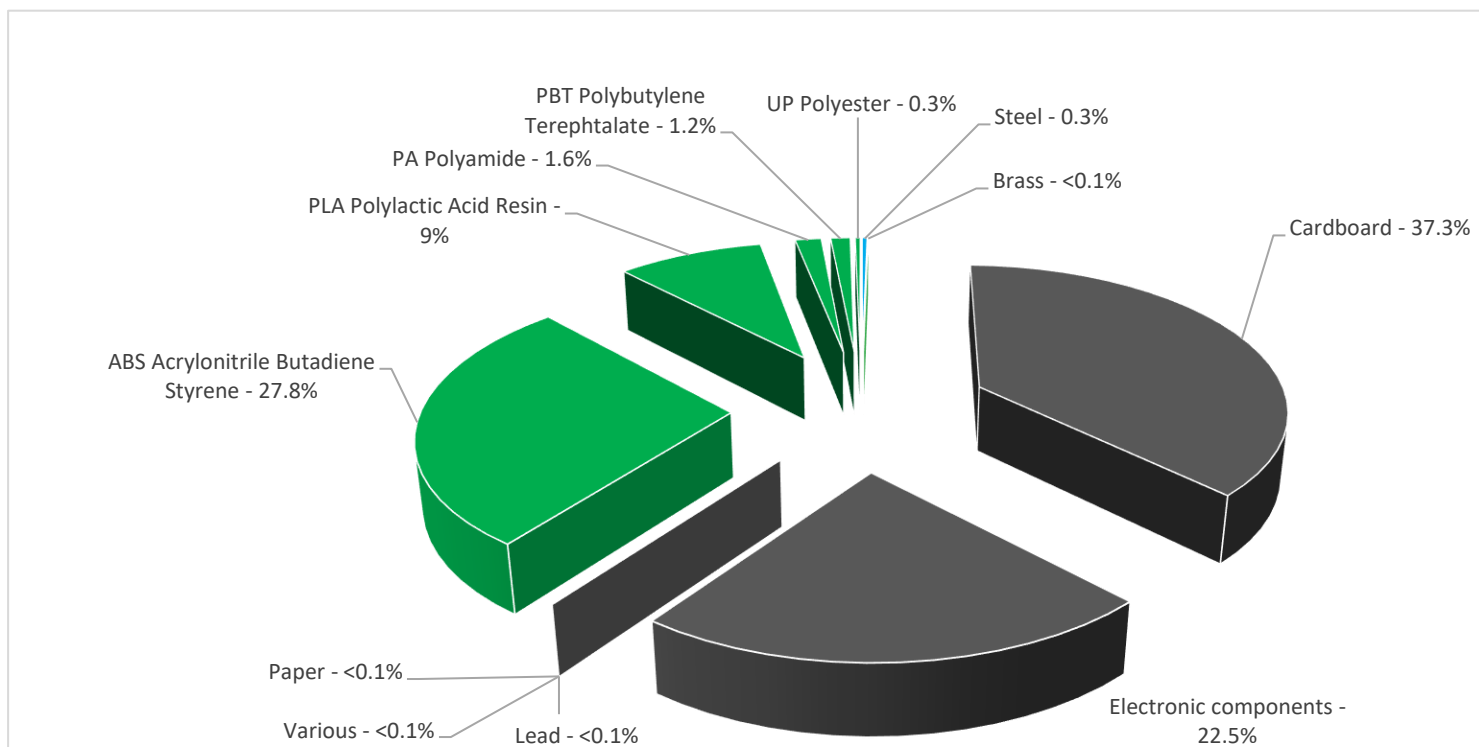
General information

Representative product	ENCOMPASS RF PRESSURE MONITOR - G4PM371EP
Description of the product	The Pressure Monitor detects level, temperature, low battery, and system status and broadcasts this data to the system's Gateway.
Description of the range	RF PRESSURE 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 Pressure Monitor is battery powered and measures liquid level by detecting pressure changes on the Pressure Sensor with an average power consumption of 2.7 W during its 10 years of life at 100%.



Constituent materials

Reference product mass 1093.5 g including the product, its packaging and additional elements and accessories



Plastics	39,9%
Metals	0,3%
Others	59,8%



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

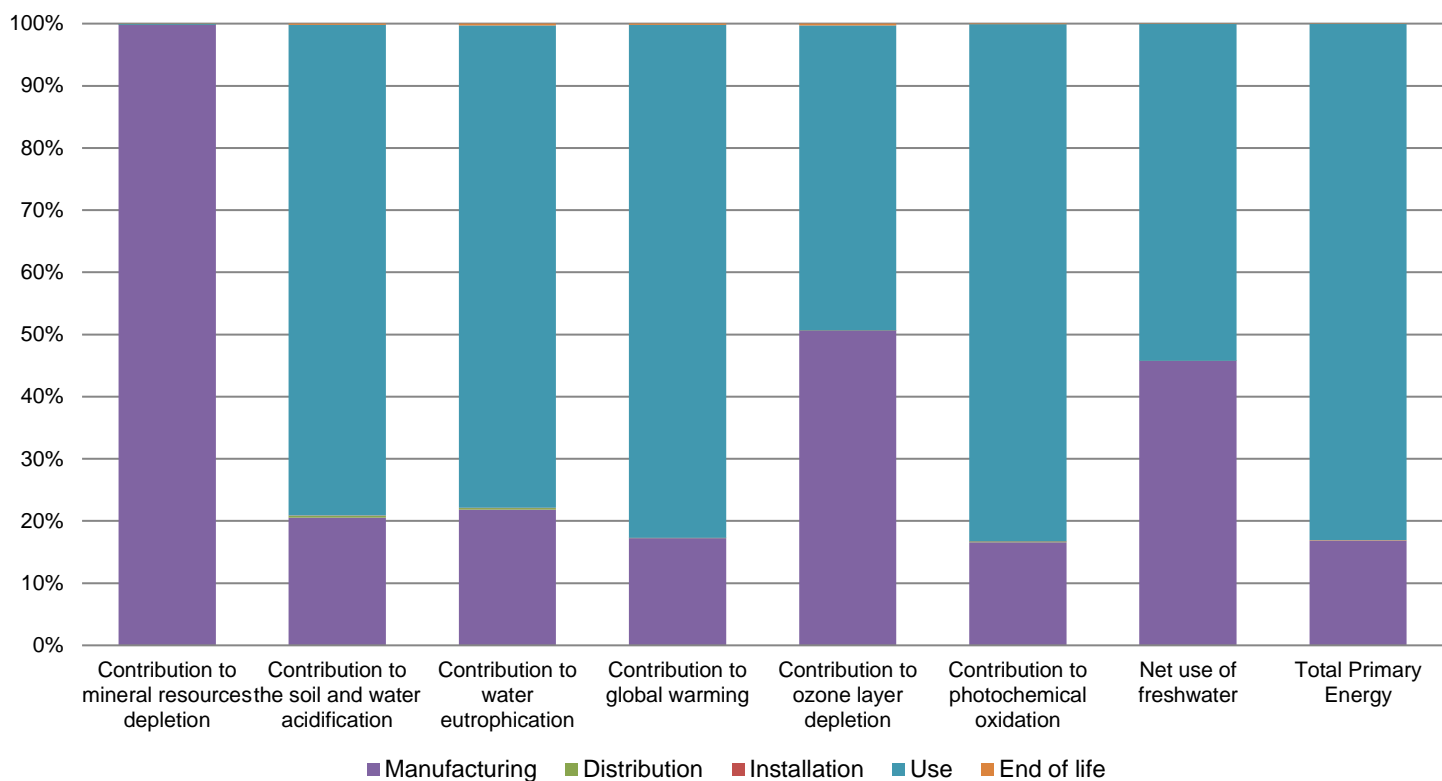
The ENCOMPASS RF PRESSURE MONITOR presents the following relevant environmental aspects

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 412 g, consisting of Carton Board (100%)
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 Batteries (50g) with 5 years of life time.
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 boards (198.94 g) and Batteries (50 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: 11% 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	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 2.7 W for 10 years.			
Geographical representativeness	USA			
Technological representativeness	The Pressure Monitor detects level, temperature, low battery, and system status and broadcasts this data to the system's Gateway.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: USA	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		ENCOMPASS RF PRESSURE MONITOR - G4PM371EP					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7,57E-04	7,56E-04	0*	0*	1,61E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1,99E-01	4,08E-02	6,44E-04	9,29E-05	1,57E-01	3,33E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	5,33E-02	1,16E-02	1,48E-04	2,26E-05	4,13E-02	1,44E-04
Contribution to global warming	kg CO ₂ eq	1,99E+02	3,42E+01	1,41E-01	2,23E-02	1,64E+02	4,19E-01
Contribution to ozone layer depletion	kg CFC11 eq	6,05E-06	3,07E-06	0*	0*	2,97E-06	1,67E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3,02E-02	5,00E-03	4,60E-05	6,94E-06	2,51E-02	3,06E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	5,34E-01	2,45E-01	0*	0*	2,89E-01	2,58E-04
Total Primary Energy	MJ	2,66E+03	4,47E+02	1,99E+00	2,91E-01	2,20E+03	1,55E+00



Optional indicators		ENCOMPASS RF PRESSURE MONITOR - G4PM371EP					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2,37E+03	3,72E+02	1,98E+00	2,89E-01	1,99E+03	1,22E+00
Contribution to air pollution	m³	1,73E+04	3,42E+03	6,00E+00	0*	1,39E+04	1,23E+01
Contribution to water pollution	m³	1,05E+04	2,33E+03	2,32E+01	3,38E+00	8,07E+03	2,48E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3,88E-01	3,88E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,50E+02	1,71E+01	0*	0*	1,32E+02	0*
Total use of non-renewable primary energy resources	MJ	2,51E+03	4,30E+02	1,99E+00	2,91E-01	2,07E+03	1,55E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,46E+02	1,39E+01	0*	0*	1,32E+02	0*
Use of renewable primary energy resources used as raw material	MJ	3,19E+00	3,19E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,49E+03	4,13E+02	1,99E+00	2,91E-01	2,07E+03	1,55E+00
Use of non renewable primary energy resources used as raw material	MJ	1,63E+01	1,63E+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	1,39E+01	7,92E+00	0*	0*	4,38E+00	1,56E+00
Non hazardous waste disposed	kg	3,52E+01	1,02E+01	5,01E-03	0*	2,50E+01	1,18E-02
Radioactive waste disposed	kg	5,39E-03	2,80E-03	3,57E-06	5,95E-07	2,58E-03	9,85E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5,73E-01	8,64E-02	0*	4,10E-01	0*	7,67E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,04E-01	0*	0*	0*	0*	1,04E-01
Exported Energy	MJ	1,36E-03	1,80E-04	0*	1,18E-03	0*	0*

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

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 20% by the mass of the product and 80% the energy. For Global warming, Photochemical Oxidation and Total Primary Energy, the impacts may be proportional at 15% by the mass of the product and 85% the energy. For Ozone Layer Depletion the impact may be proportional at 50% by the mass of the product and 50% the energy. For Net use of freshwater, the impact may be proportional at 45% by the mass of the product and 55% 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	ENVPEP2102009_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
Independent verification of the declaration and data			
Internal	X	External	
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »			

Schneider Electric

www.schneider-electric.com/contact

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

ENVPEP2102009_V1

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02/2021