Product Environmental Profile

Encompass RF Gauge Monitor RF Gauge Monitors



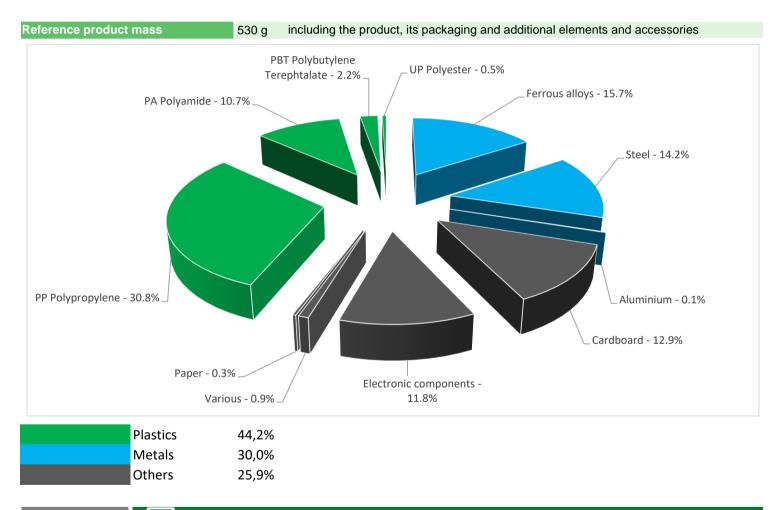




General information

Representative product	Encompass RF Gauge Monitor - G4GM05HG				
Description of the product	The Gauge Monitor detects level, temperature, low battery, and system status and broadcasts this information to the system's Gateway.				
	RF Gauge Monitors				
Description of the range	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 Gauge Monitor connects to a sensor that detects the position of the pointer in a level indicator dial on the tank, and by comparing the sensor input and output voltages, the Monitor determines the percent volume of liquid inside the tank, during 10 years lifetime with a maximum power consumption of 0.24 W at 100% use rate.				

Constituent materials



E | Substance assessment

This product contains: lead (0.1 %),. These percentages are relative to the total mass of the product.

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

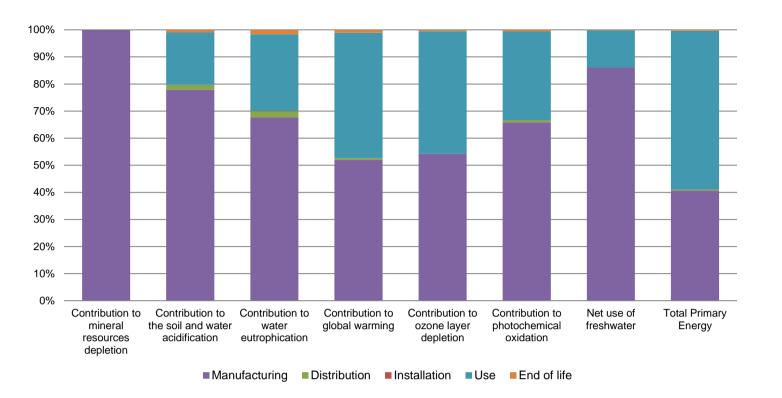
(19) Additional environmental information

	The Encompass RF Gauge 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 69 g, consisting of Cardboard (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 Battery Pack of 34 g have to be changed every 5 years.					
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 board (29.2 g) and Battery (34 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: 64%	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 0.24 W for 10 years.						
Geographical representativeness	JSA						
Technological representativeness	The Gauge Monitor detects level, temperature, low battery, and system status and broadcasts this information 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 Gauge Monito	or - G4GM05H	G		
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6,45E-04	6,44E-04	0*	0*	3,28E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1,74E-02	1,35E-02	3,12E-04	1,56E-05	3,35E-03	1,71E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	3,16E-03	2,14E-03	7,19E-05	3,78E-06	8,95E-04	5,18E-05
Contribution to global warming	kg CO ₂ eq	9,83E+00	5,10E+00	6,84E-02	3,73E-03	4,54E+00	1,10E-01
Contribution to ozone layer depletion	kg CFC11 eq	1,27E-06	6,86E-07	1,39E-10	0*	5,74E-07	6,23E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	2,77E-03	1,82E-03	2,23E-05	1,16E-06	9,06E-04	1,80E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4,54E-02	3,91E-02	6,12E-06	0*	6,21E-03	1,03E-04
Total Primary Energy	MJ	2,28E+02	9,27E+01	9,67E-01	4,88E-02	1,34E+02	8,76E-01



Optional indicators		Encompass	RF Gauge Monito	or - G4GM05H	G		
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	7,98E+01	5,02E+01	9,61E-01	4,84E-02	2,79E+01	6,80E-01
Contribution to air pollution	m³	9,94E+02	6,86E+02	2,91E+00	1,49E-01	2,98E+02	6,94E+00
Contribution to water pollution	m³	5,82E+02	3,73E+02	1,12E+01	5,66E-01	1,89E+02	7,54E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2,78E-01	2,78E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,01E+02	1,48E+00	0*	0*	9,91E+01	0*
Total use of non-renewable primary energy resources	MJ	1,28E+02	9,13E+01	9,66E-01	4,87E-02	3,45E+01	8,75E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,00E+02	1,28E+00	0*	0*	9,91E+01	0*
Use of renewable primary energy resources used as raw material	MJ	2,06E-01	2,06E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,24E+02	8,81E+01	9,66E-01	4,87E-02	3,45E+01	8,75E-01
Use of non renewable primary energy resources used as raw material	MJ	3,15E+00	3,15E+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	6,11E+00	5,29E+00	0*	0*	1,14E-01	6,99E-01
Non hazardous waste disposed	kg	4,17E+00	3,74E+00	2,43E-03	5,07E-04	4,16E-01	7,66E-03
Radioactive waste disposed	kg	2,96E-03	2,72E-03	1,73E-06	0*	2,38E-04	4,88E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4,15E-01	4,64E-02	0*	6,87E-02	0*	3,00E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,79E-02	0*	0*	0*	0*	1,79E-02
Exported Energy	MJ	2,19E-04	2,09E-05	0*	1,98E-04	0*	0*
* rangagenta laga than 0.010/ of the total life aval	f 4b - 4-f	auauaa fla					

^{*} 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 manufacturing 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 the impacts may be proportional at 80% by the mass of the product and 20% the energy. For Water Eutrophication the impacts may be proportional at 70% by the mass of the product and 30% the energy. For Global warming the impacts may be proportional at 50% by the mass of the product and 50% the energy. For Photochemical Oxidation, the impacts may be proportional at 65% by the mass of the product and 35% the energy. For Ozone Layer Depletion the impact may be proportional at 55% by the mass of the product and 45% the energy. For Net use of freshwater, the impact may be proportional at 85% by the mass of the product and 15% the energy. For Total Primary Energy, the impact may be proportional at 40% by the mass of the product and 60% 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.

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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:

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1602 Mustang Drive

Maryville

TN

USA

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