

Product Environmental Profile

9500A Magnetic Flow Sensor

Magnetic Flow Sensors





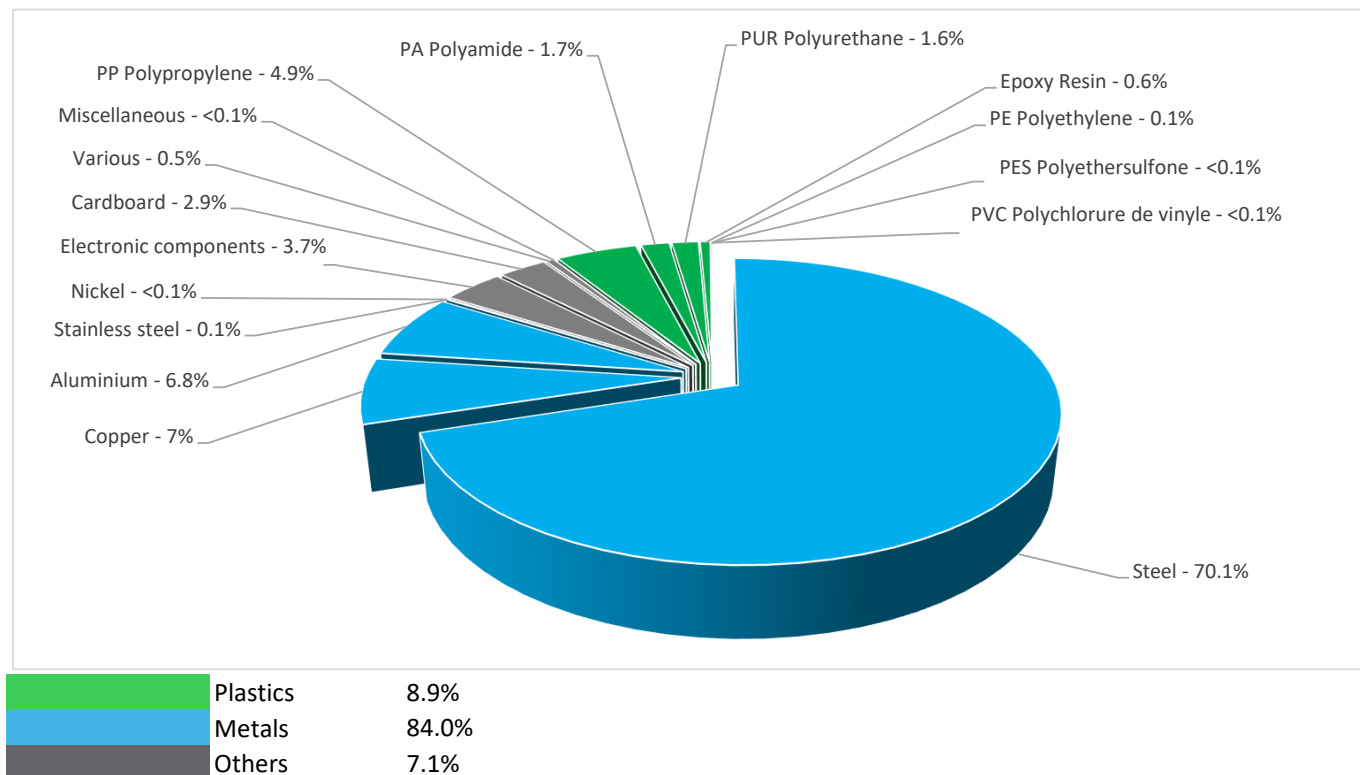
General information

Representative product	9500A Magnetic Flow Sensor - 9500A
Description of the product	Electromagnetic flowmeter for standard water and wastewater applications
Description of the range	Magnetic Flow Sensors 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 9500A flow meter works in conjunction with a signal converter which supplies the current required by two field coils to generate a magnetic field, which converts the flow proportional signal voltage into digital values from which volume flow and the mass flow are calculated, during its 10 years of lifetime with a maximum power consumption of 4 W at 100% usage



Constituent materials

Reference product mass	17.9 Kg including the product, its packaging and additional elements and accessories
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Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl 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

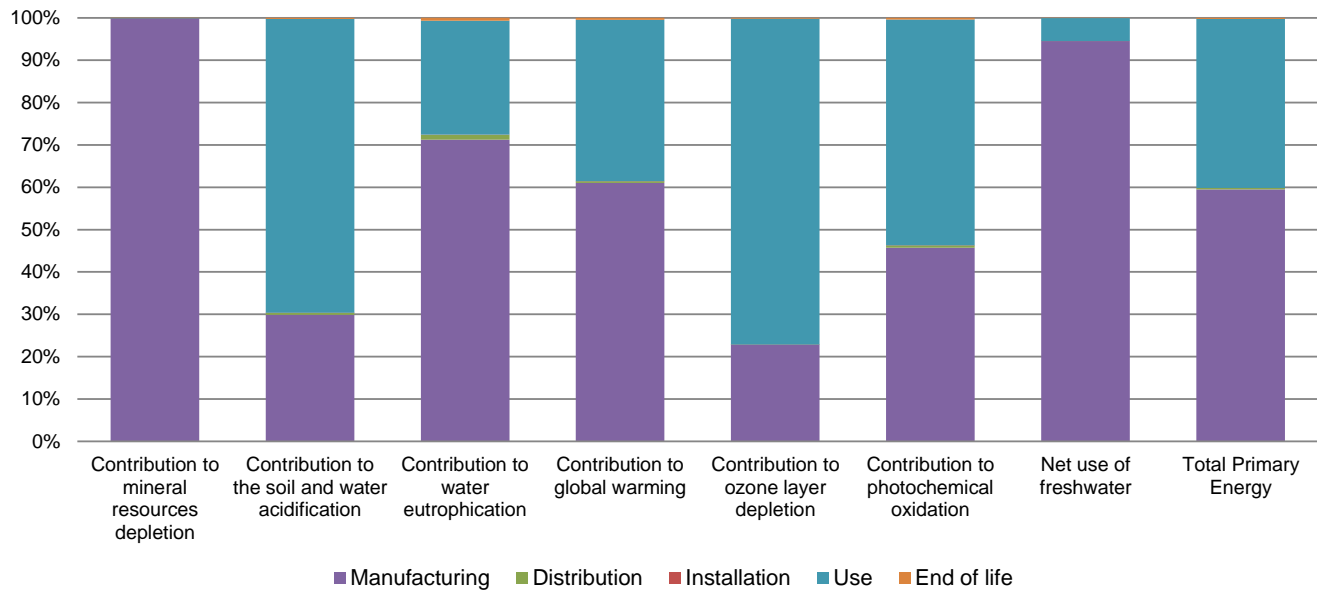
The 9500A Magnetic Flow Sensor presents the following relevant environmental aspects

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 820 g, consisting of Cardboard (64.4%) and PUR foam (35.6%)
Installation	Installation will vary based on the client's specific situation. It is not expected to involve significant physical operations or materials.
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 Boards (502.46g), LCD (35g) and Cables (140g) 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 http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</p> <p>Recyclability potential: 87% 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 4 W for 10 years			
Geographical representativeness	The product can be used in all regions			
Technological representativeness	Electromagnetic flowmeter for standard water and wastewater applications			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: USA	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		9500A Magnetic Flow Sensor - 9500A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6.89E-03	6.88E-03	0*	0*	9.42E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2.25E+00	6.74E-01	1.06E-02	2.33E-04	1.56E+00	5.39E-03
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2.18E-01	1.55E-01	2.43E-03	1.41E-04	5.86E-02	1.46E-03
Contribution to global warming	kg CO ₂ eq	5.43E+02	3.31E+02	2.31E+00	5.77E-02	2.07E+02	2.64E+00
Contribution to ozone layer depletion	kg CFC11 eq	6.53E-05	1.49E-05	0*	0*	5.03E-05	1.35E-07
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.39E-01	6.34E-02	7.53E-04	1.77E-05	7.39E-02	5.68E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	9.91E+00	9.37E+00	0*	0*	5.40E-01	2.48E-03
Total Primary Energy	MJ	1.05E+04	6.25E+03	3.27E+01	0*	4.19E+03	2.69E+01



Optional indicators		9500A Magnetic Flow Sensor - 9500A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4.97E+03	2.79E+03	3.25E+01	6.72E-01	2.13E+03	2.15E+01
Contribution to air pollution	m³	3.65E+04	2.73E+04	9.84E+01	4.27E+00	8.87E+03	1.90E+02
Contribution to water pollution	m³	1.61E+05	1.51E+05	3.80E+02	0*	8.68E+03	3.74E+02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.75E+00	5.75E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.76E+02	7.65E+01	4.36E-02	0*	3.00E+02	0*
Total use of non-renewable primary energy resources	MJ	1.01E+04	6.17E+03	3.26E+01	0*	3.89E+03	2.69E+01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.76E+02	7.65E+01	4.36E-02	0*	3.00E+02	0*
Use of renewable primary energy resources used as raw material	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.67E+03	5.72E+03	3.26E+01	0*	3.89E+03	2.69E+01
Use of non renewable primary energy resources used as raw material	MJ	4.55E+02	4.55E+02	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	2.98E+02	2.77E+02	0*	0*	0*	2.07E+01
Non hazardous waste disposed	kg	8.45E+02	7.03E+01	0*	2.36E-01	7.74E+02	0*
Radioactive waste disposed	kg	6.78E-01	4.71E-02	0*	0*	6.31E-01	1.32E-04
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.77E+01	1.72E+00	0*	6.09E-01	0*	1.53E+01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.58E-01	0*	0*	0*	0*	2.58E-01
Exported Energy	MJ	1.67E-03	1.57E-04	0*	1.51E-03	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2020-12 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 Net use of freshwater, the impacts may be proportional at 95% by the mass of the product and 5% 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 and Total Primary Energy, the impacts may be proportional at 60% by the mass of the product and 40% the energy. For Photochemical Oxidation, the impacts may be proportional at 45% by the mass of the product and 55% the energy. For Soil and Water acidification, the impacts may be proportional at 30% by the mass of the product and 70% the energy. For Ozone Layer depletion, the impacts may be proportional at 20% by the mass of the product and 80% 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	ENVPEP2111019_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	11/2021		
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
Independent verification of the declaration and data			
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>			

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