

# Product Environmental Profile

## INTELLIGENT PRESSURE TRANSMITTER

**IGP, IAP, IDP and IMV series of intelligent pressure sensing and transmitting gauges (multiple configurations)**





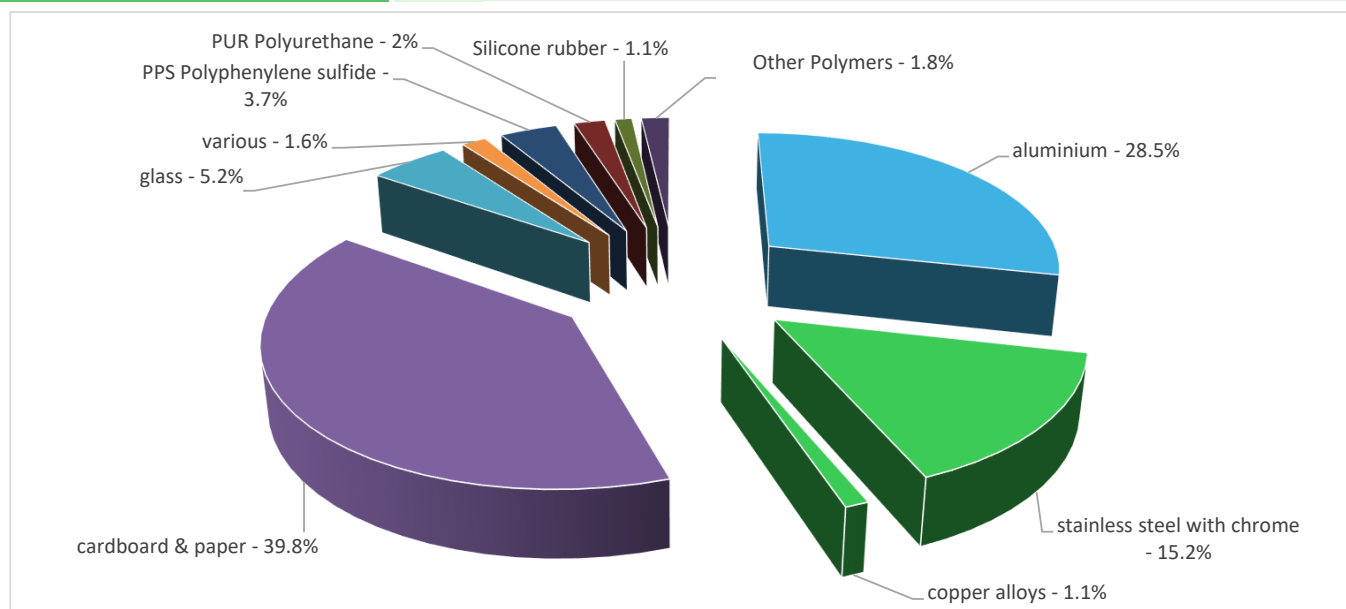
## General information

Representative product	INTELLIGENT PRESSURE TRANSMITTER - IGP10S
Description of the product	Field installed electronic transmitter for measuring pressure under a range of conditions within Industrial applications.
Description of the range	IGP, IAP, IDP and IMV series of intelligent pressure sensing and transmitting gauges (multiple configurations)  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	Continuous measurement of gauge pressure within industrial processes, and transmission of output signal, for remote configuration and monitoring, in accordance with the relevant standards for a duration of 10 years.



## Constituent materials

Reference product mass 2568 g including the product, its packaging and additional elements and accessories



Plastics	8.6%
Metals	44.8%
Others	46.6%



## 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

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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

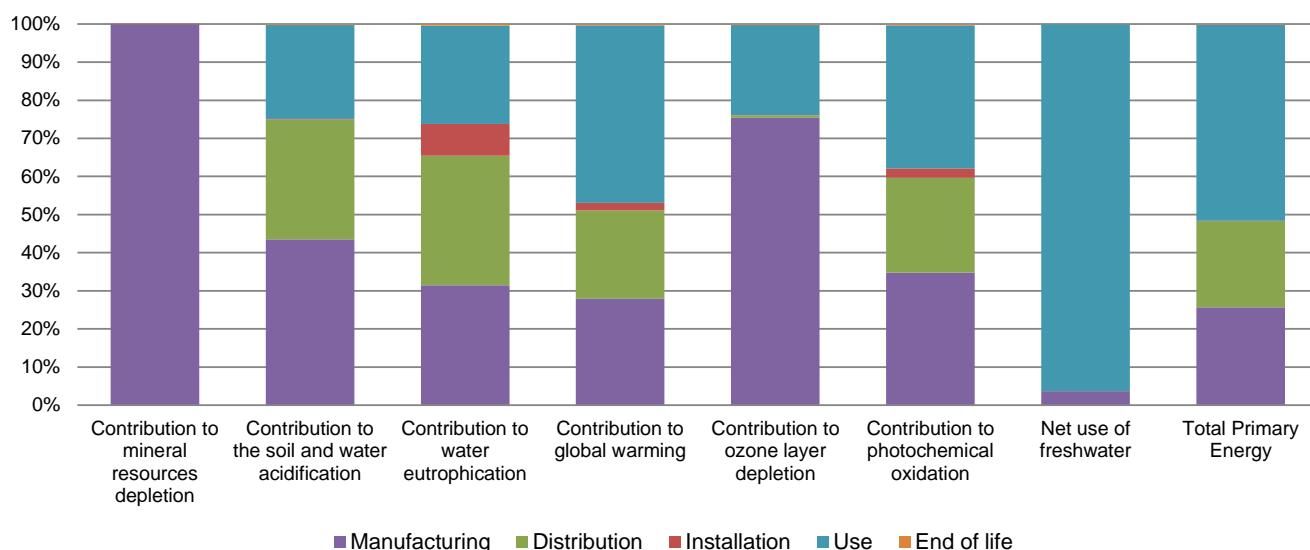
The INTELLIGENT PRESSURE TRANSMITTER presents the following relevant environmental aspects

Design	
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 1067.8 g, consisting of Paper pulp (55%), Cardboard (43%) and Paper (2%) Product distribution optimised by setting up local distribution centres
Installation	The IGP10S does not require any special installation materials or operations. Installation per MI 020-601.
Use	The product does not require special maintenance operations.
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 PCBAs (56g, 21g and 17g) and a Sensor PCBA Assembly (418g) 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  <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>69%</b> 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	Active product			
Installation elements	Transport and end of life of packaging accounted for during installation.			
Use scenario	The product consumes an estimated average of 0.69 W.			
Geographical representativeness	Worldwide			
Technological representativeness	The means of production and transport modeled are representative of the technologies used in production.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: United States of America	U.S., Brazil, China and the E.U.	U.S., Brazil, China and the E.U.	U.S., Brazil, China and the E.U.

Compulsory indicators		INTELLIGENT PRESSURE TRANSMITTER - IGP10S					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5.33E-03	5.33E-03	7.08E-07	0*	7.07E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1.70E-01	7.37E-02	5.33E-02	2.84E-04	4.18E-02	5.01E-04
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	3.49E-02	1.10E-02	1.19E-02	2.91E-03	9.01E-03	1.43E-04
Contribution to global warming	kg CO <sub>2</sub> eq	7.64E+01	2.13E+01	1.77E+01	1.52E+00	3.55E+01	2.81E-01
Contribution to ozone layer depletion	kg CFC11 eq	4.46E-06	3.36E-06	2.72E-08	3.76E-09	1.05E-06	1.34E-08
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	1.50E-02	5.21E-03	3.71E-03	3.68E-04	5.62E-03	5.17E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	8.98E+00	3.26E-01	1.65E-03	0*	8.65E+00	0*
Total Primary Energy	MJ	1.11E+03	2.84E+02	2.50E+02	9.62E-01	5.68E+02	2.44E+00



Optional indicators		INTELLIGENT PRESSURE TRANSMITTER - IGP10S					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.04E+03	2.55E+02	2.49E+02	9.22E-01	5.31E+02	2.23E+00
Contribution to air pollution	m³	5.79E+03	2.42E+03	3.56E+02	6.94E+00	2.98E+03	1.74E+01
Contribution to water pollution	m³	7.00E+03	2.26E+03	2.92E+03	8.72E+01	1.71E+03	2.18E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.84E-01	4.84E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.22E+02	1.75E+01	2.82E-01	0*	1.04E+02	0*
Total use of non-renewable primary energy resources	MJ	9.83E+02	2.66E+02	2.50E+02	9.61E-01	4.63E+02	2.44E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.00E+02	0*	2.82E-01	0*	1.04E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2.19E+01	2.19E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.75E+02	2.58E+02	2.50E+02	9.61E-01	4.63E+02	2.44E+00
Use of non renewable primary energy resources used as raw material	MJ	7.61E+00	7.61E+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	4.35E+01	4.04E+01	0*	0*	9.20E-01	2.18E+00
Non hazardous waste disposed	kg	6.37E+01	4.82E+01	5.32E-01	1.07E+00	1.39E+01	7.37E-03
Radioactive waste disposed	kg	2.08E-02	1.40E-02	3.40E-04	3.04E-06	6.49E-03	1.23E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.52E+00	4.22E-01	0*	0*	0*	1.10E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.20E-02	1.00E-03	0*	0*	0*	4.10E-02
Exported Energy	MJ	0.00E+00	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.6.0.1, 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.

The environmental indicators of other products in this family may be proportional extrapolated, by life cycle phase, based on the ratio of the amount of a key parameter of the product, over the amount of that key parameter within the reference product. Proportionality rules are based on the following key parameters for impacts by lifecycle phase: Manufacturing phase impacts - mass of the electronic boards (with components) and mass of the product excluding packaging.\* Distribution phase impacts - total mass of product (including packaging). Installation phase impacts - mass of packaging. Use phase impacts - product lifetime energy consumption. End of Life impacts - the product mass (excluding packaging).

\*For all other phases the parameter ratio times the reference phase impact will generally yield the product phase impact. For the manufacturing phase the impact is to be multiplied by the average of the first and second parameter ratios.

*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	ENVPEP1801005-V01.02-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	07/2019	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
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) »			

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