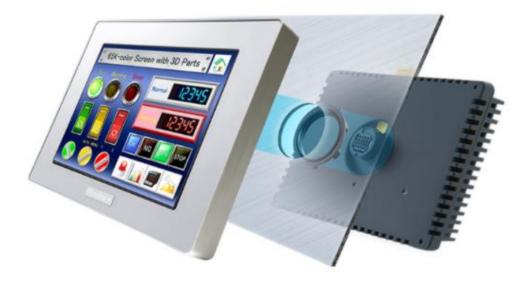
Product Environmental Profile

Touch Operator Interface GP4000M Series



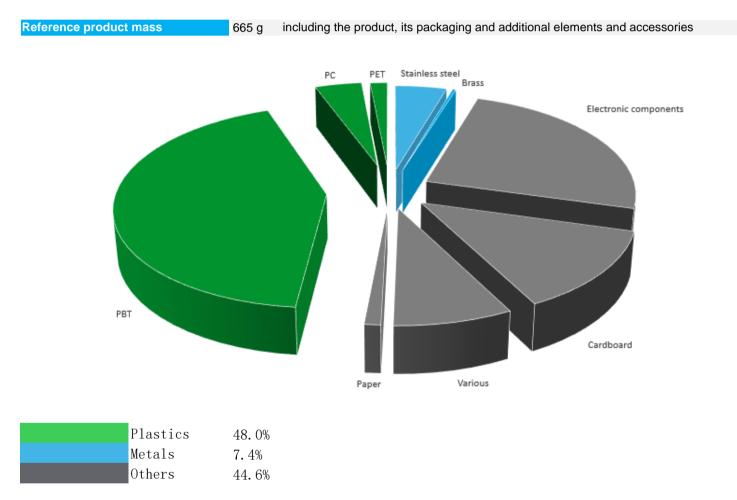


by Schneider Electric

General information

Representative product	Touch Operator Interface GP4000M Series - PFXGM4301TAD					
Description of the product	Modular human machine interface					
	Touch Operator Interface GP4000M					
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	To provide a modular human machine interface with ethernet communication during 10 years and a 100% use rate at 10.5W.					

Constituent materials



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, Disobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-

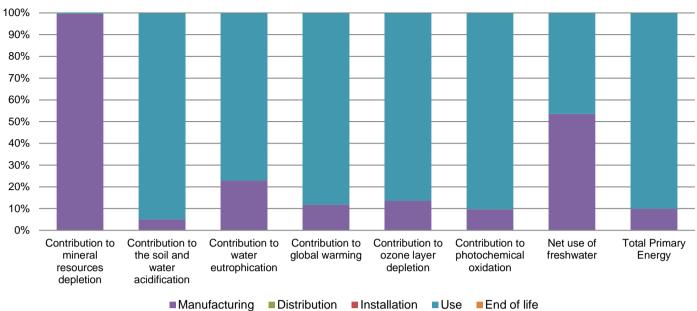
Additional environmental information

The Touch Operator Interface GP4000M Series presents the following relevent environmental aspects							
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 104.9 g, consisting	g of Cardboard(84%), PET film(9%), Paper(5%)					
	Product distribution optimised by setting up local distribution centres						
Installation	Anti rotation tee and tightening wrench tools can be used for installation						
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials						
End of life	This product contains Electronic board (95.4g), LCD (69g), Plastic frame/Housing/Cover (175.8g) 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: 58%	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).					

O Environmental impacts

Reference life time	10 years						
Product category	Other equipments - Active product						
Use scenario	The product is in active mode 100% of the time with a power use of 10.5W						
Geographical representativeness	China,Europe and US						
Technological representativeness	Modular human machine interface						
	Manufacturing	Installation	Use	End of life			
Energy model used	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN			

Compulsory indicators		Touch Oper	ator Interface GP	4000M Series	- PFXGM430 ⁴	ITAD	
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.55E-03	2.54E-03	0*	0*	1.16E-05	0*
Contribution to the soil and water acidification	kg SO_2 eq	2.00E+00	1.00E-01	3.92E-04	0*	1.90E+00	2.13E-04
Contribution to water eutrophication	kg PO4 ³⁻ eq	2.53E-01	5.77E-02	9.02E-05	0*	1.95E-01	7.79E-05
Contribution to global warming	kg CO ₂ eq	8.02E+02	9.39E+01	8.58E-02	0*	7.07E+02	2.00E-01
Contribution to ozone layer depletion	kg CFC11 eq	5.77E-05	7.86E-06	0*	0*	4.99E-05	7.92E-09
Contribution to photochemical oxidation	$kg C_2H_4 eq$	1.52E-01	1.46E-02	2.80E-05	0*	1.37E-01	2.03E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2.57E+00	1.38E+00	0*	0*	1.19E+00	0*
Total Primary Energy	MJ	1.29E+04	1.28E+03	0*	0*	1.17E+04	0*



Manufacturing Distribution Installation Use

Optional indicators		Touch Operator Interface GP4000M Series - PFXGM4301TAD				1TAD	
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.04E+04	1.15E+03	1.21E+00	0*	9.21E+03	0*
Contribution to air pollution	m³	6.74E+04	8.86E+03	0*	0*	5.85E+04	7.08E+00
Contribution to water pollution	m³	3.95E+04	5.74E+03	1.41E+01	0*	3.37E+04	1.12E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	8.34E-02	8.34E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	7.19E+02	2.24E+01	0*	0*	6.97E+02	0*
Total use of non-renewable primary energy resources	MJ	1.22E+04	1.26E+03	0*	0*	1.10E+04	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.19E+02	2.20E+01	0*	0*	6.97E+02	0*
Use of renewable primary energy resources used as raw material	MJ	3.88E-01	3.88E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.22E+04	1.25E+03	0*	0*	1.10E+04	0*
Use of non renewable primary energy resources used as raw material	MJ	1.00E+01	1.00E+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	1.00E+02	8.34E+01	0*	0*	1.59E+01	9.25E-01
Non hazardous waste disposed	kg	7.76E+02	1.62E+01	0*	0*	7.60E+02	0*
Radioactive waste disposed	kg	5.55E-01	3.33E-03	0*	0*	5.52E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.71E-01	4.65E-02	0*	8.79E-02	0*	3.36E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.50E-02	0*	0*	0*	0*	4.50E-02
Exported Energy	MJ	2.79E-04	2.62E-05	0*	2.53E-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.

For touch operator interface GP4000M series, the environmental indicator ADPe of other products in this family may be proportional extrapolated by product weight; for the indicator NUFW, impact may be 50% proportional extrapolated by energy consumption values and 50% proportional extrapolated by product weight; for other indicators, impact may be 5%-20% proportional extrapolated by product weight; for other indicators, impact may be 5%-20% proportional extrapolated by product weight; may be product weight; for other indicators, impact may be 5%-20% proportional extrapolated by product weight; may be product weight; for other indicators, impact may be 5%-20% proportional extrapolated by product weight; may be product weight; m

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 numbe	er	ENVPEP2101002_V1	Drafting rules	PCR-ed3-EN-2015 04 02			
Date of issue		01/2021					
Validity period		5 years	Information and reference documents	www.pep-ecopassport.org			
Independent verification of the declaration and data							
Internal	Х	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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www.schneider-electric.com ENVPEP2101002_V1 Published by Schneider Electric

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01/2021