

# Product Environmental Profile

## ET6000 HMI



**Pro-face**  
by Schneider Electric



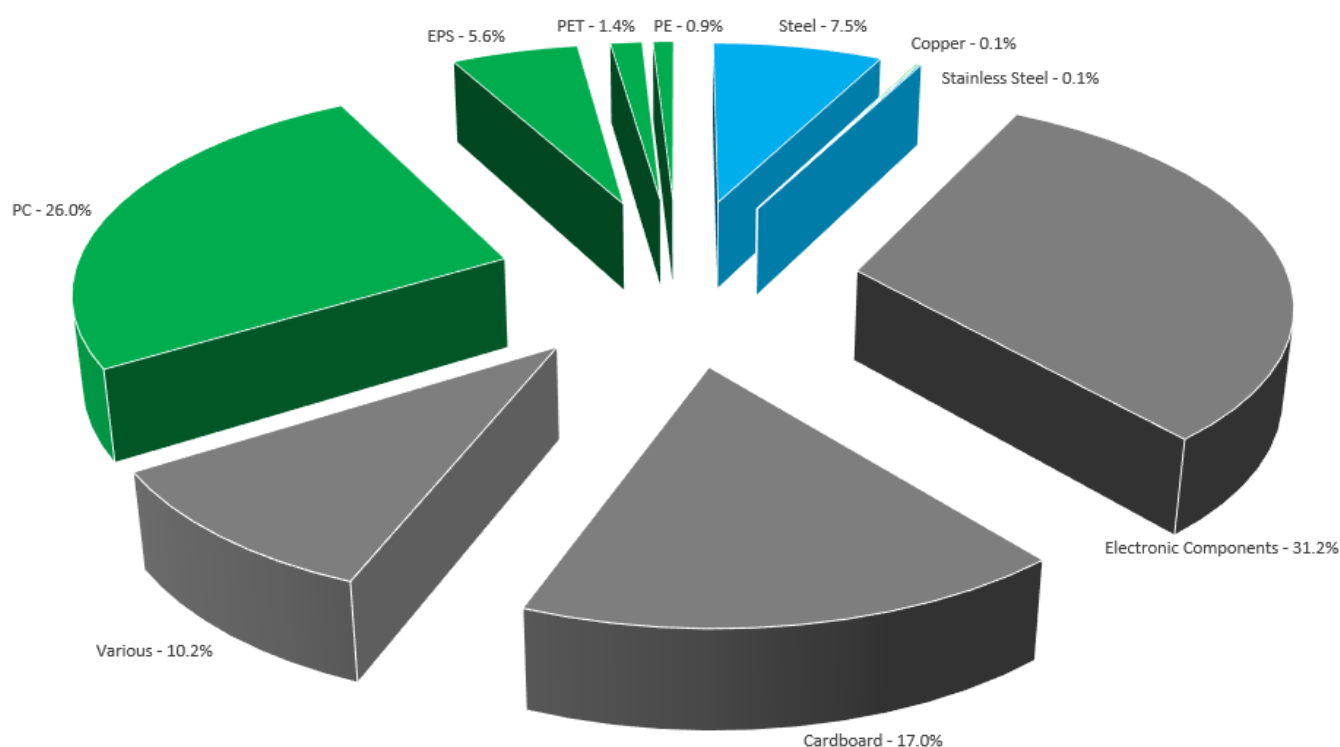
## General information

Representative product	ET6000 HMI - PFXET6400WAD
Description of the product	Human machine interface for machine or system automation
Description of the range	ET6000 HMI Series 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 human machine interface during 10 years and a 100% use rate at 9W.



## Constituent materials

Reference product mass	879.8 g including the product, its packaging and additional elements and accessories
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Plastics	33.9%
Metals	7.7%
Others	58.4%



## 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 ET6000 HMI presents the following relevant environmental aspects

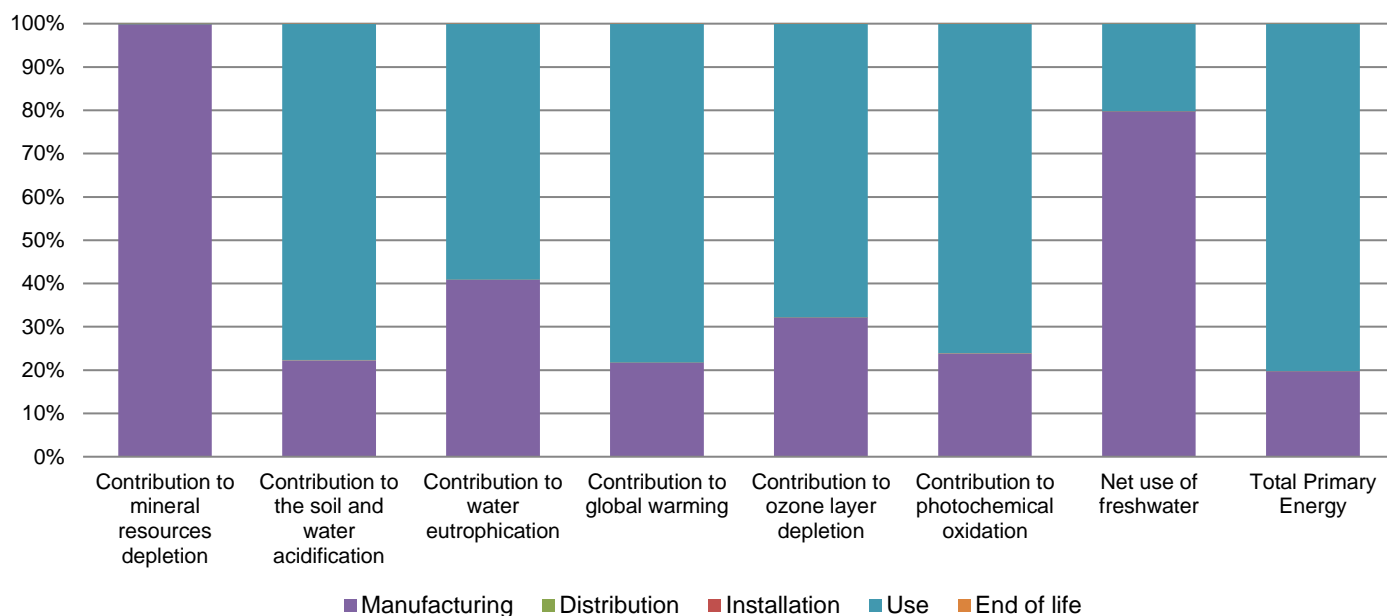
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 212.3 g, consisting of cardboard (72%), expendable polystyrene (24%), PE film (4%) Product distribution optimised by setting up local distribution centres
<b>Use</b>	1 battery of 2.8g has to be changed every 5 years or regarding to actual need.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains electronic board (109.4g), plastic housing (229.7g), LCD (155.3g) and batteries (2.8g) 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  <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>66%</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

<b>Reference life time</b>	10 years			
<b>Use scenario</b>	The product is in active mode 100% of the time with a power use of 9W			
<b>Geographical representativeness</b>	China, India, Brazil, Russia			
<b>Technological representativeness</b>	Human machine interface for machine or system automation			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	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		ET6000 HMI - PFXET6400WAD					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.63E-03	3.62E-03	0*	0*	4.42E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	9.58E-01	2.14E-01	5.18E-04	0*	7.44E-01	2.57E-04
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	3.33E-01	1.36E-01	1.19E-04	0*	1.97E-01	9.43E-05
Contribution to global warming	kg CO <sub>2</sub> eq	9.22E+02	2.00E+02	1.14E-01	0*	7.22E+02	2.43E-01
Contribution to ozone layer depletion	kg CFC11 eq	5.07E-05	1.63E-05	0*	0*	3.44E-05	9.92E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	1.27E-01	3.03E-02	3.70E-05	0*	9.69E-02	2.45E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.93E+00	3.13E+00	0*	0*	7.95E-01	0*
Total Primary Energy	MJ	1.40E+04	2.76E+03	1.61E+00	0*	1.12E+04	0*



Optional indicators		ET6000 HMI - PFXET6400WAD					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.25E+04	2.50E+03	1.59E+00	0*	1.00E+04	0*
Contribution to air pollution	m³	8.88E+04	1.85E+04	0*	0*	7.03E+04	0*
Contribution to water pollution	m³	4.94E+04	1.18E+04	1.87E+01	0*	3.75E+04	1.35E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.42E-01	1.42E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	9.82E+02	5.19E+01	0*	0*	9.30E+02	0*
Total use of non-renewable primary energy resources	MJ	1.30E+04	2.71E+03	1.60E+00	0*	1.03E+04	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.82E+02	5.19E+01	0*	0*	9.30E+02	0*
Use of renewable primary energy resources used as raw material	MJ	5.09E-03	5.09E-03	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.30E+04	2.70E+03	1.60E+00	0*	1.03E+04	0*
Use of non renewable primary energy resources used as raw material	MJ	1.41E+01	1.41E+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	2.07E+02	1.85E+02	0*	0*	2.08E+01	1.05E+00
Non hazardous waste disposed	kg	1.50E+02	3.49E+01	0*	0*	1.15E+02	0*
Radioactive waste disposed	kg	2.00E-02	7.18E-03	2.87E-06	0*	1.28E-02	6.79E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	6.57E-01	4.65E-02	0*	1.53E-01	0*	4.57E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	5.47E-02	0*	0*	0*	0*	5.47E-02
Exported Energy	MJ	4.88E-04	4.58E-05	0*	4.42E-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 ET6000 HMI 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 80% proportional extrapolated by product weight and 20% proportional extrapolated by energy consumption value; for other indicators, impact may be 20%-40% proportional extrapolated by product weight and 60-80% proportional extrapolated by energy consumption value in accordance with the indicator chart.

*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	ENVPEP2101022_V1-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	03/2021		
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) »			

Schneider Electric Industries SAS

Country Customer Care Center  
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier  
CS 30323  
F- 92506 Rueil Malmaison Cedex  
RCS Nanterre 954 503 439  
Capital social 896 313 776 €

[www.schneider-electric.com](http://www.schneider-electric.com)

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