Product Environmental Profile

PacNet bus terminal - BT-4







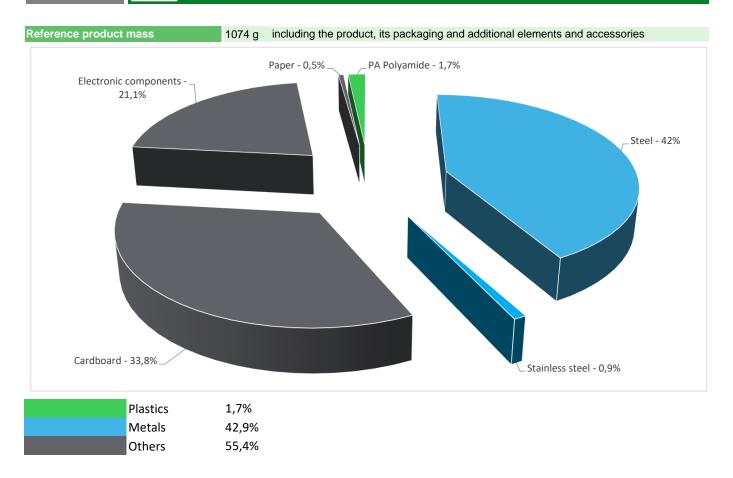
ENVPEP2012012 V1 01/2021



General information

Representative product	PacNet bus terminal - BT-4 - VBO04S001
Description of the range	PacNet is a high-speed bus system for I/O extension with which distributed digital inputs/outputs and encoders (incremental and SinCos encoders) can be networked with the PacDrive system. The bus is used for the communication between the controllers Cx00, P600, LMC Pro & Pro2 and the bus terminal BT-4/DIO1 or between the controllers Cx00, P600, LMC Pro & Pro2 and the bus terminal BT-4/ENC1. The input and output states are transferred via this interface. Up to four extension modules BT-4/DIO1 or BT-4/ENC1 can be connected to the bus of the PacNet. Thereby the bus terminals can also be mixed.
	The range integrates VBO04S01, Bus terminal – 4/DIO1, PacNet bus terminal 16x digital inputs/16x digital outputs and VBO05S00,Bus terminal–4/Enc1
	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 extend the I/O of the PacDrive system 100% of the time for 10 years.

Constituent materials



ENVPEP2012012_V1 01/2021

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

(19) Additional environmental information

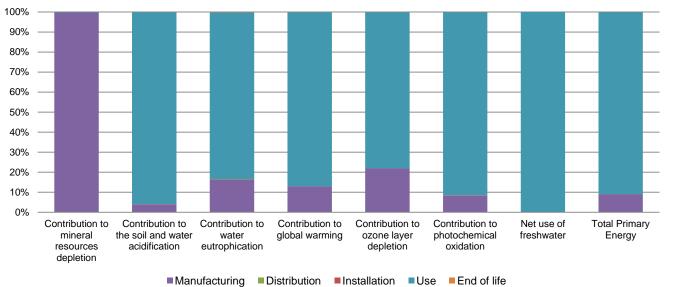
	The PacNet bus terminal - BT-4 presents the following relevent environmental aspects					
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified					
	Weight and volume of the packaging optimized, based on the European Union's packaging directive					
Distribution	Packaging weight is 381,6 g, consisting of cardboard (99%) and paper (1%)					
	Product distribution optimised by setting up local distribution centres					
Installation	Does not require any specific installation					
Use	The product does not require special maintenance operations.					
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains one electronic card (151g) that should be separated from the stream of waste so as to optimize					
	end-of-life treatment.					
End of life	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: 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						
Installation elements	No special components needed						
Use scenario	The product is in active mode 100% of the time with a power use of 4W for 10 years						
Geographical representativeness	Europe						
	Manufacturing	Installation	Use	End of life			
Energy model used	Energy model used: Germany	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU- 27			

ENVPEP2012012 V1 01/2021

Compulsory indicators		PacNet bus terminal - BT-4 - VBO04S001					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1,14E-02	1,14E-02	0*	0*	1,86E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	9,34E-01	3,81E-02	6,33E-04	0*	8,95E-01	2,79E-04
Contribution to water eutrophication	kg PO ₄ 3- eq	6,50E-02	1,07E-02	1,46E-04	2,09E-05	5,40E-02	1,07E-04
Contribution to global warming	kg CO₂ eq	2,47E+02	3,18E+01	1,39E-01	0*	2,15E+02	2,83E-01
Contribution to ozone layer depletion	kg CFC11 eq	1,79E-05	3,93E-06	0*	0*	1,40E-05	1,14E-08
Contribution to photochemical oxidation	kg C₂H₄ eq	5,38E-02	4,52E-03	4,51E-05	6,43E-06	4,92E-02	2,62E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	7,78E+02	2,41E-01	0*	0*	7,78E+02	0*
Total Primary Energy	MJ	4,72E+03	4,26E+02	1,96E+00	0*	4,29E+03	1,29E+00



Optional indicators	PacNet bus terminal - BT-4 - VBO04S001						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2,73E+03	2,87E+02	1,95E+00	0*	2,44E+03	1,05E+00
Contribution to air pollution	m³	1,18E+04	2,57E+03	5,89E+00	0*	9,24E+03	9,17E+00
Contribution to water pollution	m³	1,14E+04	2,50E+03	2,28E+01	3,13E+00	8,86E+03	1,52E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,86E-01	1,86E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	5,64E+02	1,91E+01	0*	0*	5,45E+02	0*
Total use of non-renewable primary energy resources	MJ	4,15E+03	4,07E+02	1,96E+00	0*	3,74E+03	1,29E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5,57E+02	1,16E+01	0*	0*	5,45E+02	0*
Use of renewable primary energy resources used as raw material	MJ	7,47E+00	7,47E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4,15E+03	4,04E+02	1,96E+00	0*	3,74E+03	1,29E+00
Use of non renewable primary energy resources used as raw material	MJ	3,05E+00	3,05E+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*

ENVPEP2012012_V1 01/2021

Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2,02E+01	1,89E+01	0*	0*	1,12E-01	1,14E+00
Non hazardous waste disposed	kg	8,07E+02	6,45E+00	0*	0*	8,00E+02	0*
Radioactive waste disposed	kg	5,37E-01	2,79E-03	0*	0*	5,34E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	9,44E-01	8,83E-02	0*	3,80E-01	0*	4,76E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6,60E-02	0*	0*	0*	0*	6,60E-02
Exported Energy	MJ	1,21E-03	1,13E-04	0*	1,09E-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 v5.6.0.1, 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.

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		ENVPEP2012012_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 verificat	ion of th	ne declaration and data			
Internal	Χ	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

Published by Schneider Electric

ENVPEP2012012_V1

© 2021 - Schneider Electric - All rights reserved

01/2021