

Product Environmental Profile

Wireless to Modbus TCP/IP Concentrator



General information

Representative product	&ireless to " odbus ' CP(IP Concentrator -) *+ " &) , -
Description of the product	Connect the center connection point of the terminal,it elaborates and exposes IP services based on the data available on B+B- bus, targeting energ! " onitoring and #oad Control functions. It also \$eens basic historical data of consumptions seen h! the " %.
Functional unit	'o communicate . ith a " %, through B+B- bus and via &ired thernet on! for 1- !ears

Constituent materials

Reference product mass	166.16 including the product, its pac\$aging and additional elements and accessories
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Additional environmental information

The Wireless to Modbus TCP/IP Concentrator presents the following relevant environmental aspects

Design	
Manufacturing	Manufactured at a Schneider Electric production site ISO 9001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 200g, consisting of cardboard 100g, paper 100g Product distribution optimized by setting up local distribution centres
Installation	-
Maintenance	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 no electronic card larger than 10cm ² , 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://www.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Based on EN 50518 recirculation and recoverability calculation method EN 50518, version F1, 2006 presented to the French Agency for Environment and Energy Management (ADEME)

Environmental impacts

Reference life time	10 years			
Product category	Active products			
Installation elements	No special components needed			
Use scenario	Consumed power is 10W, 50% of the time in active mode, 50% *6 J of the time in standby mode, & 10 J of the time in sleep mode and 10 J of the time in off mode.			
Geographical representativeness	China			
Technological representativeness	Connect the center connection point of the terminal, it elaborates and exposes IP services based on the data available on B+B bus, targeting energy monitoring and load control functions. It also keeps basic historical data of consumptions seen by the user.			
Energy model used	Manufacturing	Installation	Maintenance	End of life
	Energy model used; China 2014	Electricity mix (CO ₂ consumption mix, at consumer level, 2014)	Electricity mix (CO ₂ consumption mix, at consumer level, 2014)	Electricity mix (CO ₂ consumption mix, at consumer level, 2014)

Compulsory indicators

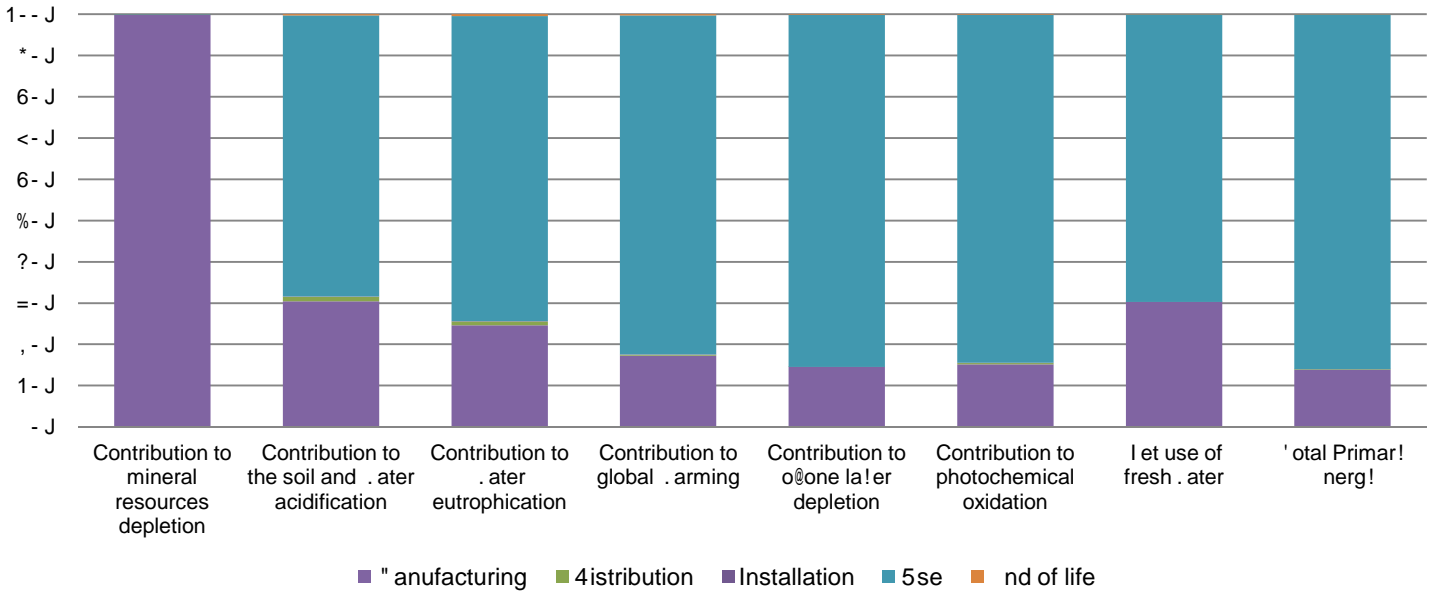
Wireless to Modbus TCP/IP Concentrator (%#) MW%*+

Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Maintenance	End of life
Contribution to mineral resources depletion	\$g 2b e/	1.00	1.00	-H	-H	0.06	-H
Contribution to the soil and water acidification	\$g 29, e/	1.00	0.99	1.06	0.06	1.00	0.00

Contribution to water eutrophication	\$g P ₉₇ e/	=. <1 --=	*.1, --?	=.6- --%	,. =6 --6	,. <? --=	1. <1 --%
Contribution to global warming	\$g CO ₂ e/	1.?? +-1	,.26 +-+	=.?- --,	=.1 < --=	1.16 +-1	?.%% --,
Contribution to ozone layer depletion	\$g CFC11 e/	1.%1 --6	,., - --<	-H	,.61 -1-	1., * --6	,., % --*

Contribution to photochemical oxidation	\$g C ₁₇ e/	=.%6 --=	%.? - --?	1.1? --%	1.-% --6	=.-1 --=	=.* * --6
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Resources use	" nit	'otal	" anufacturing	4istribution	Installation	5se	nd of #ife
Let use of fresh water	m=	=.66 --,	1.11 --,	-H	=.66 --6	,.%% --,	,.<< --%
'otal Primary energy!	" 7	=.-6 +-,	?,.% +-1	?.<6 --1	%.?? --,	,.6% +-,	,., % --1



Optional indicators	Wireless to Modbus TCP/IP Concentrator (%#) MW%*+						
Impact indicators	" nit	'otal	" anufacturing	4istribution	Installation	5se	nd of #ife
Contribution to fossil resources depletion	" 7	,.1= +-,	=., - +-1	?.<% --1	?.*? --,	1.61 +-,	1.66 --1
Contribution to air pollution	mL	1.% < +-=	,.% , +-,	1.6= +-+	=.%1 --1	1.=, +-=	1.?, +-+
Contribution to water pollution	mL	1., , +-=	6.26 +-,	%.%6 +-+	=.<% --1	%.6- +-,	,.?? +-+
Resources use	" nit	'otal	" anufacturing	4istribution	Installation	5se	nd of #ife
5se of secondary material	\$g	1.% , --=	1.% , --=	-H	-H	-H	-H

Total use of renewable primary energy resources	" 7	1.-+ +--	*.*** --1	6.=< --?	-H	-H	1.*6 --?
	" 7	=.-< +-,	?1% +-1	?.<< --1	%.?=- --,	,.6% +-,	,.,% --1
	" 7	?16 --1	?16 --1	6.=< --?	%.?- --%	-H	1.*6 --?
	" 7	%.6= --1	%.6= --1	-H	-H	-H	-H
Use of non renewable primary energy excluding non renewable primary energy used as raw material	" 7	=.-? +-,	=.6% +-1	?.<< --1	%.?=- --,	,.6% +-,	,.,% --1
Use of non renewable primary energy resources used as raw material	" 7	,.*6 +--	,.*6 +--	-H	-H	-H	-H
Use of non renewable secondary fuels	" 7	-.-- +--	-H	-H	-H	-H	-H
	" 7	-.-- +--	-H	-H	-H	-H	-H
	" nit	'otal	"anufacturing	istribution	Installation	Use	nd of #ife
1 hazardous waste disposed	\$g	,.1= +--	%.<6 --1	-H	6.6% --,	1.,6 +--	,.=? --1
1 on hazardous waste disposed	\$g	1.=+ +--	,.%1 --1	1.,- --=	1.?* --?	1.-% +--	%.%6 --?
0 radioactive waste disposed	\$g	1.,% --=	1.66 --?	6.%6 --<	,.??% --<	1.-6 --=	1.,6 --6
	" nit	'otal	"anufacturing	istribution	Installation	Use	nd of #ife
Materials for recycling	\$g	*.1% --=	,.6 --?	-H	-H	-H	6.* , --=
	\$g	-.-- +--	-H	-H	-H	-H	-H
Materials for energy recovery	\$g	1.11 --,	?6, --?	-H	-H	-H	1.-6 --,
	" 7	-.-- +--	-H	-H	-H	-H	-H