

Product Environmental Profile

SCADA SY-0399160R-AS

Foxboro Evo Remote Terminal Viewer (RTV)





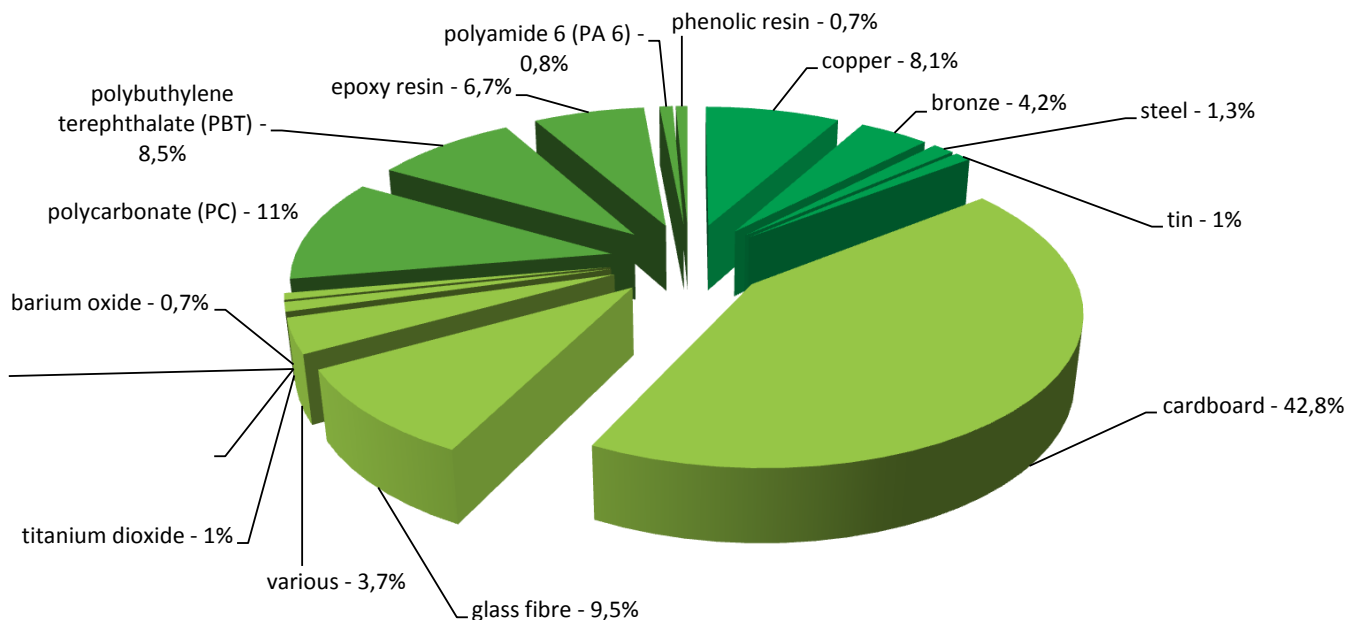
General information

Representative product	SCADA SY-0399160R-AS -
Description of the product	4 Analog and 32 Digital Inputs module
Description of the range	The System Configurator is an off-line utility which allows full configuration of all field I/O and communications assignments of the RTU. 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	Provide Optically isolated input with 4 Analog (-2/+2v) and 32 Digital Inputs (24 V to 129 V) during 10 years and 100% use rate



Constituent materials

Reference product mass 719 g including the product, its packaging and additional elements and accessories



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 SCADA SY-0399160R-AS presents the following relevant environmental aspects

Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 300 g, consisting of Card Board (70%), polyethylene foam (30%) Packaging recycled materials is 85% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	Ref SY-0399160R-AS does not require any installation operations.
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 PCBA(122g) 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: 13% 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

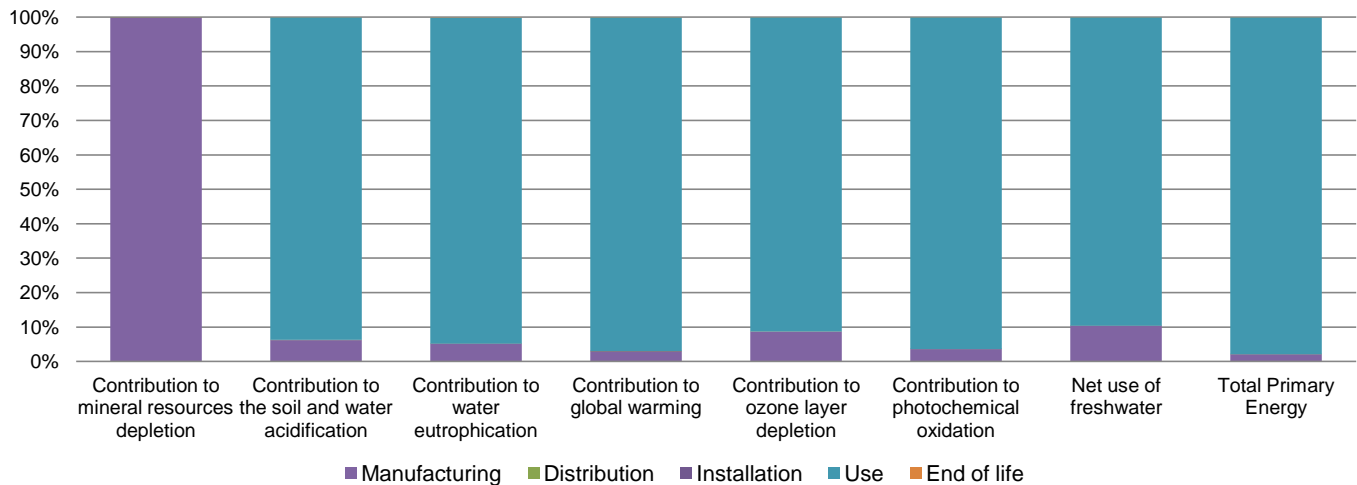
Reference life time	10 years			
Product category	Active products			
Installation elements	No			
Use scenario	Consumed power is 10 W 100 % of the time in Active mode, W 0 % of the time in Standby mode, W 0 % of the time in Sleep mode and W 0 % of the time in Off mode. The product is in active mode 100% of the time with a power use of 10W for 10 years (source: Scada range Product specifications)			
Geographical representativeness	US			
Technological representativeness	4 Analog and 32 Digital Inputs module			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: CHINA	Electricity mix AC; Europe consistent; consumption mix, at power plant; US	Electricity mix AC; Europe consistent; consumption mix, at power plant: US	Electricity mix AC; Europe consistent; consumption mix, at power plant: US

Compulsory indicators

SCADA SY-0399160R-AS -

Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
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Contribution to mineral resources depletion	kg Sb eq	5,77E-03	5,77E-03	0*	0*	8,03E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	6,70E-01	4,15E-02	4,24E-04	8,59E-05	6,28E-01	2,55E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1,76E-01	9,02E-03	9,76E-05	2,02E-05	1,66E-01	1,45E-04
Contribution to global warming	kg CO ₂ eq	6,54E+02	1,96E+01	9,28E-02	0*	6,34E+02	4,83E-01
Contribution to ozone layer depletion	kg CFC11 eq	2,80E-05	2,43E-06	0*	0*	2,56E-05	1,65E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1,17E-01	4,21E-03	3,02E-05	0*	1,13E-01	1,93E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1,24E+00	1,29E-01	0*	0*	1,11E+00	2,29E-04
Total Primary Energy	MJ	1,13E+04	2,34E+02	1,24E+00	0*	1,11E+04	0*



Optional indicators		SCADA SY-0399160R-AS -					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,02E+04	2,30E+02	1,30E+00	0*	1,00E+04	0*
Contribution to air pollution	m ³	6,72E+04	1,89E+03	0*	0*	6,53E+04	7,53E+00
Contribution to water pollution	m ³	3,18E+04	2,30E+03	1,53E+01	3,27E+00	2,95E+04	1,92E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2,96E-01	2,96E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,75E+01	5,76E+00	0*	0*	2,17E+01	0*
Total use of non-renewable primary energy resources	MJ	1,13E+04	2,29E+02	1,24E+00	0*	1,11E+04	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,65E+01	4,83E+00	0*	0*	2,17E+01	0*
Use of renewable primary energy resources used as raw material	MJ	9,28E-01	9,28E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,13E+04	2,23E+02	1,24E+00	0*	1,11E+04	0*
Use of non renewable primary energy resources used as raw material	MJ	5,90E+00	5,90E+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	6,19E+01	9,72E+00	0*	3,01E-01	5,08E+01	1,05E+00

Non hazardous waste disposed	kg	9,66E+01	6,84E+00	0*	0*	8,98E+01	0*
Radioactive waste disposed	kg	3,42E-02	2,28E-03	0*	0*	3,19E-02	7,64E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3,60E-01	7,35E-03	0*	3,00E-01	0*	5,28E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,57E-01	1,93E-02	0*	0*	0*	1,37E-01
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 v5.5, database version 2015-04.

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.

Depending on the impact analysis, the environmental indicators (without RMD) of other products in this family may be proportional extrapolated by energy consumption values. For RMD, impact may be proportional extrapolated by mass of the product.

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 N°	ENVPEP1612037_V1	Drafting rules	PCR-ed3-EN-2015 04 02
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Validity period	4 years	Information and reference documents	www.pep-ecopassport.org
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	X	External	
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			

Schneider Electric Industries SAS

Customer Care Center

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

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