Product Environmental Profile

Accutech BR21 Base Radio, 2.4GHz

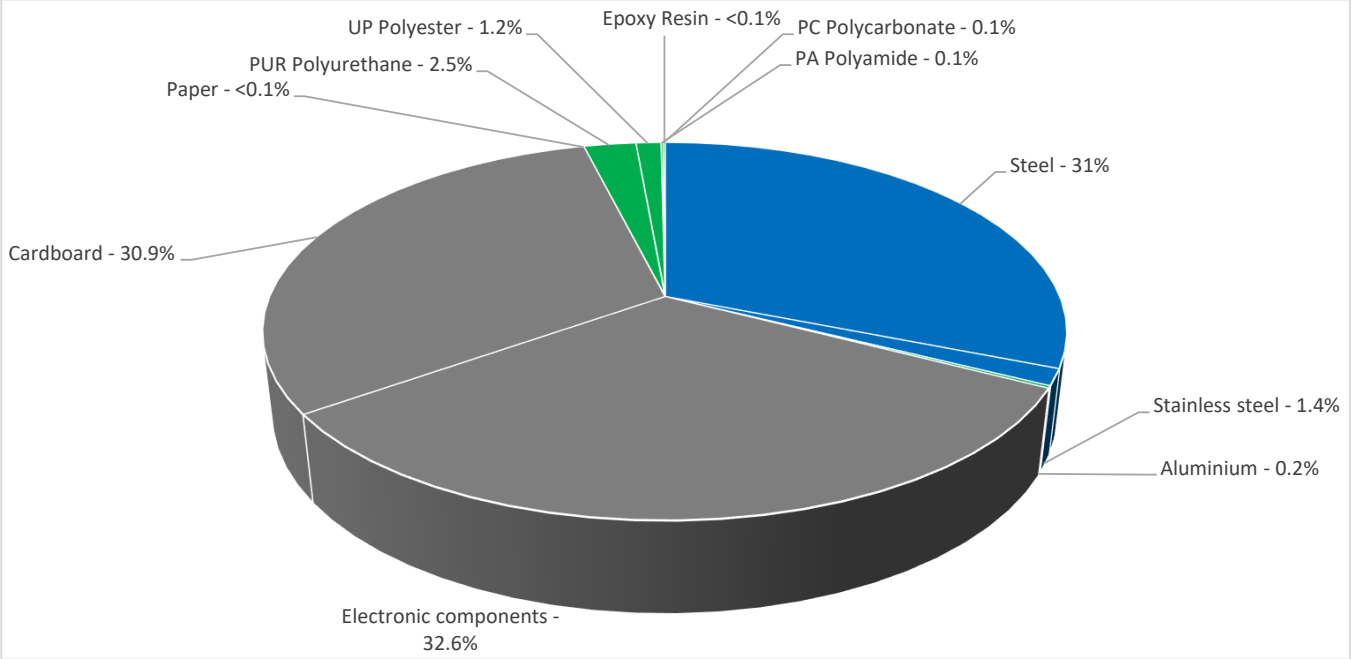
Accutech Wireless Base Radios (BR20 and BR21 Series)

General information

Representative product	Accutech BR21 Base Radio, 2.4GHz - TBUABR21-6000
Description of the product	A wireless base radio that automatically communicates with deployed instrumentation field units associated with it in a local area star network. Certified for use in hazardous environments.
Description of the range	Accutech Wireless Base Radios (BR20 and BR21 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	Automatic communication with up to 50 field instruments in associated local area star network, transmission of data through a local serial Modbus interface, in accordance with relevant standards, during 10 years lifetime with a maximum power consumption of 0.92 W at 100% use rate

Constituent materials

Reference product mass	2kg	including the product, its packaging and additional elements and accessories



	Plastics	3.9%
	Metals	32.6%
	Others	63.5%

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

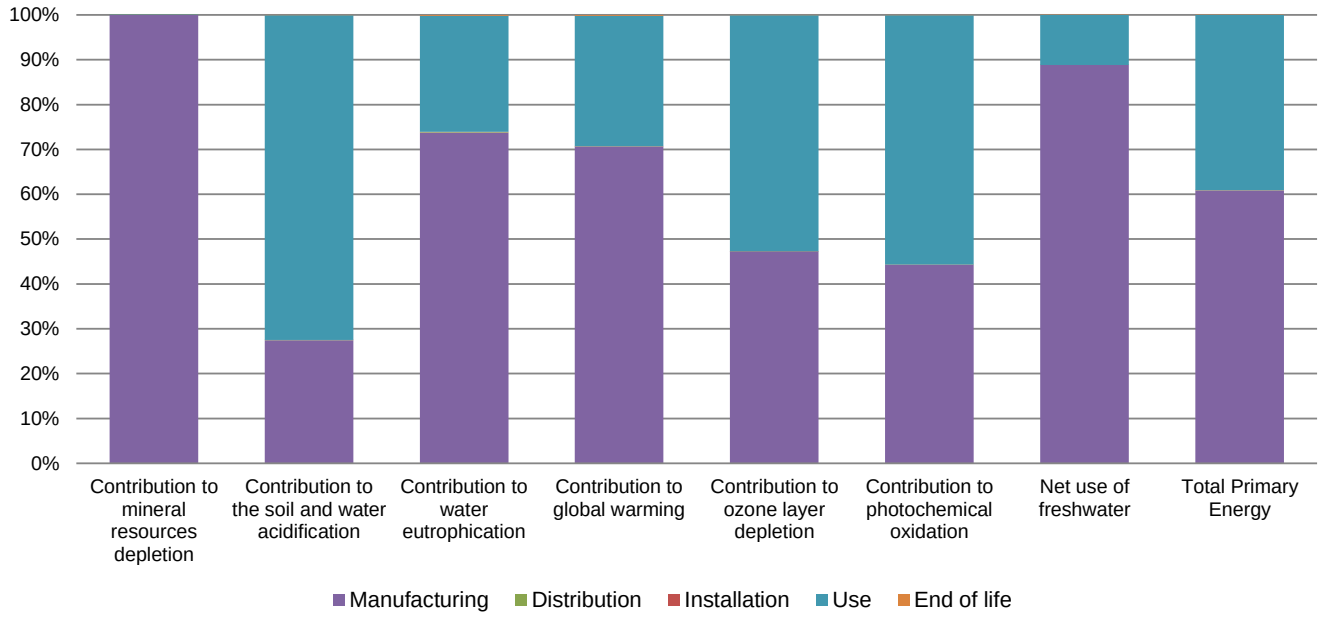
Additional environmental information

The Accutech BR21 Base Radio, 2.4GHz presents the following relevent 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 199 g, consisting of Paper and cardboard (98.47%) and Plastic (1.53%)
Installation	Installation will vary based on the client's specific situation. It is not expected to involve significant physical operations or materials.
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 Electronic board (176.35g) and Liquid crystal displays(LCD) (36g) 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: **51%** 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	Other equipments - Active product			
Installation elements	Transport and end of life of packaging accounted for during installation.			
Use scenario	The product is in active mode 100% of the time with a power use of 0.92 W for 10 years			
Geographical representativeness	The product can be used in all regions			
Technological representativeness	A wireless base radio that automatically communicates with deployed instrumentation field units associated with it in a local area star network. Certified for use in hazardous environments.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Canada	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators	Accutech BR21 Base Radio, 2.4GHz - TBUABR21-6000						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.06E-02	1.06E-02	0*	0*	2.17E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	4.97E-01	1.36E-01	3.53E-04	0*	3.60E-01	2.07E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	5.21E-02	3.84E-02	8.12E-05	1.09E-05	1.35E-02	1.11E-04
Contribution to global warming	kg CO_2 eq	1.64E+02	1.16E+02	7.72E-02	0*	4.76E+01	3.21E-01
Contribution to ozone layer depletion	kg CFC11 eq	2.19E-05	1.04E-05	0*	0*	1.16E-05	1.04E-08
Contribution to photochemical oxidation	kg C_2H_4 eq	3.06E-02	1.35E-02	2.52E-05	3.35E-06	1.70E-02	1.75E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.11E+00	9.87E-01	0*	0*	1.24E-01	1.62E-04
Total Primary Energy	MJ	2.47E+03	1.50E+03	1.09E+00	0*	9.64E+02	8.88E-01



Optional indicators	Accutech BR21 Base Radio, 2.4GHz - TBUABR21-6000						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.88E+03	1.38E+03	1.08E+00	0*	4.90E+02	7.25E-01
Contribution to air pollution	m³	1.18E+04	9.75E+03	3.28E+00	0*	2.04E+03	6.50E+00
Contribution to water pollution	m³	1.02E+04	8.19E+03	1.27E+01	1.63E+00	2.00E+03	1.53E+01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	7.87E-02	7.87E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.01E+02	3.24E+01	0*	0*	6.90E+01	0*
Total use of non-renewable primary energy resources	MJ	2.37E+03	1.47E+03	1.09E+00	0*	8.95E+02	8.87E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.76E+01	2.86E+01	0*	0*	6.90E+01	0*
Use of renewable primary energy resources used as raw material	MJ	3.74E+00	3.74E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.37E+03	1.47E+03	1.09E+00	0*	8.95E+02	8.87E-01
Use of non renewable primary energy resources used as raw material	MJ	2.13E+00	2.13E+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	1.99E+02	1.98E+02	0*	0*	0*	8.34E-01
Non hazardous waste disposed	kg	2.06E+02	2.81E+01	0*	0*	1.78E+02	0*
Radioactive waste disposed	kg	1.52E-01	7.34E-03	0*	0*	1.45E-01	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.46E-01	4.21E-02	0*	1.91E-01	0*	2.13E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	7.23E-02	0*	0*	0*	0*	7.23E-02
Exported Energy	MJ	7.22E-04	1.72E-04	0*	5.50E-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 v5.9.3, database version 2020-12 in compliance with ISO14044.

The manufacturing 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, for mineral resource depletion, the environmental indicators of other products in this family may be proportional extrapolated by mass of the product. For Soil and Water acidification, the impacts may be proportional at 28% by the mass of the product and 72% the energy. For Water Eutrophication, the impacts may be proportional at 75% by the mass of the product and 25% the energy. For Global warming, the impacts may be proportional at 70% by the mass of the product and 30% the energy. For Net use of freshwater, the impacts may be proportional at 90% by the mass of the product and 10% the energy. For Total Primary Energy, the impacts may be proportional at 60% by the mass of the product and 40% the energy. For Photochemical Oxidation, the impacts may be proportional at 45% by the mass of the product and 55% the energy. For Ozone Layer depletion, the impacts may be proportional at 48% by the mass of the product and 52% the energy.

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	ENVPEP1707011_V2	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	04/2022		
Validity period	5 years	*Information and reference documents*	www.pep-ecopassport.org

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) »

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