

Product Environmental Profile

Accutech BR20 Wireless Base Radio

Accutech Wireless Base Radios (BR20 and BR21 Series)





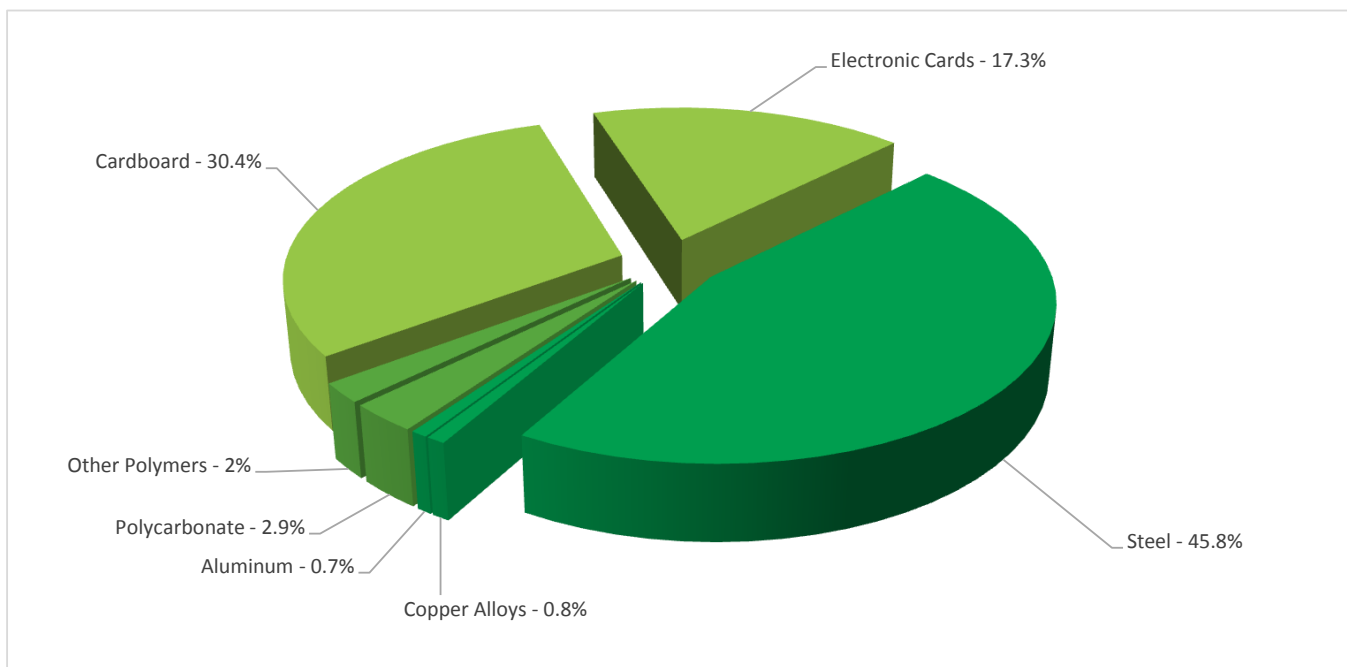
General information

Representative product	Accutech BR20 Wireless Base Radio -TBUABR20-6000
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, for a duration of 10 years.



Constituent materials

Reference product mass 626 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 Accutech BR20 Wireless Base Radio presents the following relevant environmental aspects

Design	These wireless products provides the same service at potentially reduced environmental impact by eliminating the need for wires, trenches, conduit, etc. This reduces the need for copper conductors where employed.
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 198.8 g, consisting of 94% Cardboard, 4% Plastic and 2% Paper
Installation	The product does not require any special installation materials or operations. Installation is to be performed by qualified personnel.
Use	The product does not require special maintenance operations.
End of life	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains:PCBAs (81.8 g, 30.2g, 13.2 g). that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>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</p> <p>http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</p> <p>Recyclability potential: 68% 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>

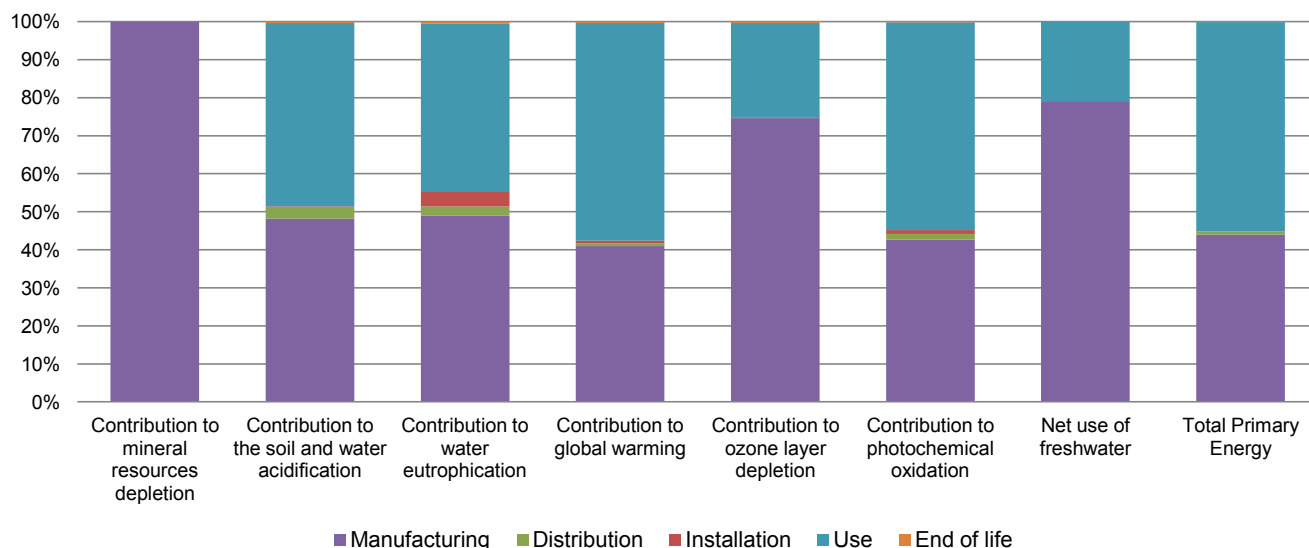
Environmental impacts

Reference life time	10 years			
Product category	Active products			
Installation elements	End of life of the product packaging is accounted for during the installation phase. No other special materials or processes required.			
Use scenario	Active mode 100% of the time using 0.4W.			
Geographical representativeness	The product can be used in all regions, but the majority of product is deployed in the U.S. and Canada.			
Technological representativeness	The means of material production, processing and transport modeled are representative of the technologies used in production.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Asia, EU and global	U.S.	U.S.	U.S.

Compulsory indicators		Accutech BR20 Wireless Base Radio - TBUABR20-6000					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	8,12E-03	8,12E-03	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	4,81E-02	2,32E-02	1,47E-03	5,44E-05	2,32E-02	1,66E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1,38E-02	6,76E-03	3,38E-04	5,27E-04	6,12E-03	6,44E-05

Contribution to global warming	kg CO ₂ eq	4,24E+01	1,74E+01	3,27E-01	2,75E-01	2,43E+01	1,73E-01
Contribution to ozone layer depletion	kg CFC11 eq	1,77E-06	1,32E-06	6,63E-10	6,99E-10	4,40E-07	6,72E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	6,81E-03	2,90E-03	1,04E-04	6,65E-05	3,72E-03	1,55E-05

Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2,05E-01	1,62E-01	2,93E-05	0*	4,29E-02	1,04E-04
Total Primary Energy	MJ	5,93E+02	2,61E+02	4,63E+00	1,82E-01	3,27E+02	7,63E-01



Optional indicators		Accutech BR20 Wireless Base Radio - TBUABR20-6000					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6,15E+02	2,26E+02	4,60E+00	1,78E-01	3,84E+02	7,05E-01
Contribution to air pollution	m ³	3,85E+03	1,77E+03	1,34E+01	1,35E+00	2,06E+03	5,45E+00
Contribution to water pollution	m ³	2,57E+03	1,30E+03	5,38E+01	1,58E+01	1,20E+03	9,13E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,18E-01	1,18E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,41E+01	4,49E+00	6,17E-03	0*	1,96E+01	0*
Total use of non-renewable primary energy resources	MJ	5,69E+02	2,56E+02	4,62E+00	1,82E-01	3,07E+02	7,62E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,02E+01	5,52E-01	6,17E-03	0*	1,96E+01	0*
Use of renewable primary energy resources used as raw material	MJ	3,94E+00	3,94E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,66E+02	2,54E+02	4,62E+00	1,82E-01	3,07E+02	7,62E-01
Use of non renewable primary energy resources used as raw material	MJ	2,55E+00	2,55E+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	9,57E+00	8,26E+00	0*	0*	6,49E-01	6,65E-01
Non hazardous waste disposed	kg	1,33E+01	9,37E+00	1,16E-02	2,00E-01	3,71E+00	2,18E-03
Radioactive waste disposed	kg	2,57E-03	2,17E-03	8,28E-06	8,14E-07	3,82E-04	4,40E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3,33E-01	4,10E-02	0*	0*	0*	2,92E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4,10E-02	0*	0*	0*	0*	4,10E-02
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 v5.6, database version 2016-11.

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.

The environmental indicators of other products in this family (excluding accessory portions) may be proportional extrapolated, by life cycle phase, based on the ratio of the amount of a key parameter of the product, over the amount of that key parameter within the reference product. Proportionality rules are based on the following key parameters for impacts by lifecycle phase: Manufacturing phase impacts - mass of the electronic boards (with components) and mass of the product excluding packaging.* Distribution phase impacts - total mass of product (including packaging). Installation phase impacts - mass of packaging. Use phase impacts - total watts of electricity consumed by the product during its lifetime. End of Life impacts - the product mass (excluding packaging).

*For all other phases the parameter ratio times the reference phase impact will generally yield the product phase impact. For the manufacturing phase the impact is to be multiplied by the average of the first and second parameter ratios.

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°	SCHN-00242-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH08	Information and reference documents	www.pep-ecopassport.org
Date of issue	08/2017		
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
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 »			



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