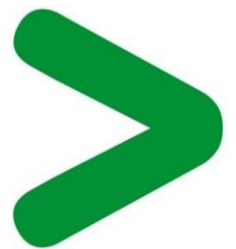


# Product Environmental Profile

## Accutech GP/GL/AP/DP Field Unit

Accutech Wireless Field Units used for Pressure and Level Measurements





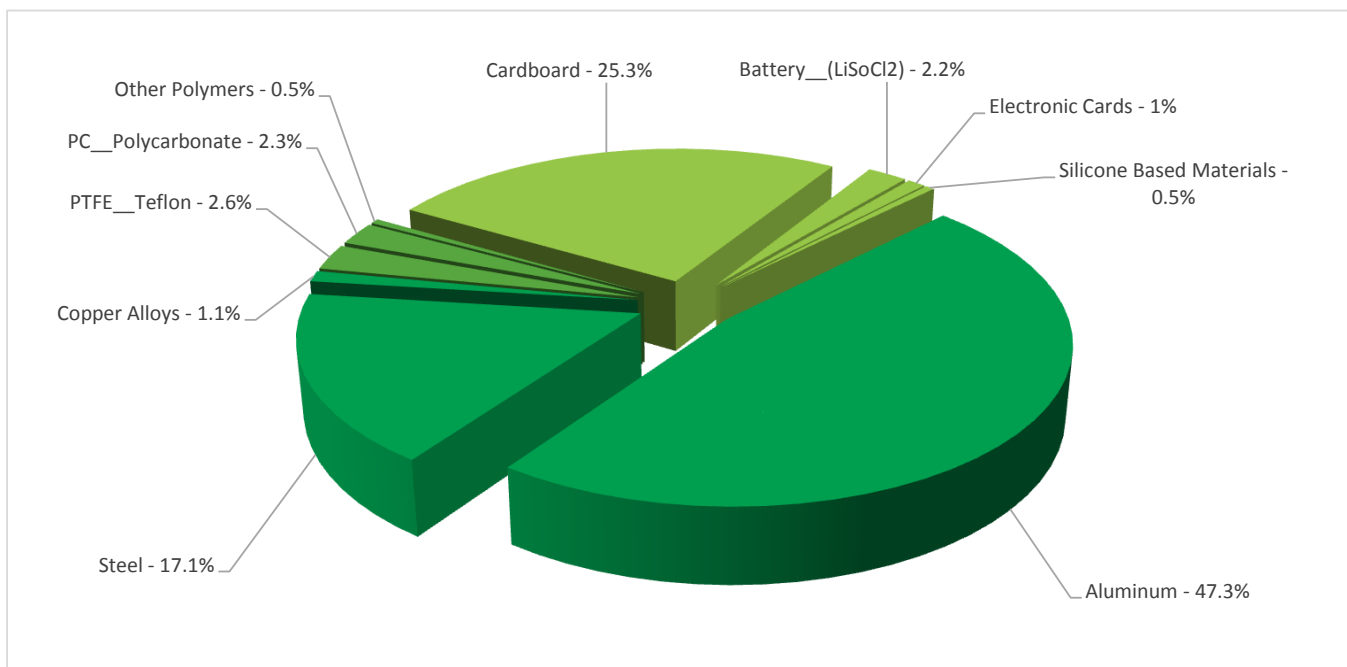
## General information

<b>Representative product</b>	Accutech GP/GL/AP/DP Field Unit -TBUAGPFQ1N00S10KA
<b>Description of the product</b>	Pressure measurement with wireless signal transmission for a range of conditions within Industrial applications. Certified for use in hazardous environments.
<b>Description of the range</b>	Accutech Wireless Field Units used for Pressure and Level Measurements 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.
<b>Functional unit</b>	Continuous measurement of pressure within industrial processes, and wireless transmission of output signal up to 1000 m, for remote configuration and monitoring, in accordance with relevant standards for a duration of 10 years.



## Constituent materials

<b>Reference product mass</b>	4169 g including the product, its packaging and additional elements and accessories
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## 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 GP/GL/AP/DP Field Unit presents the following relevant environmental aspects

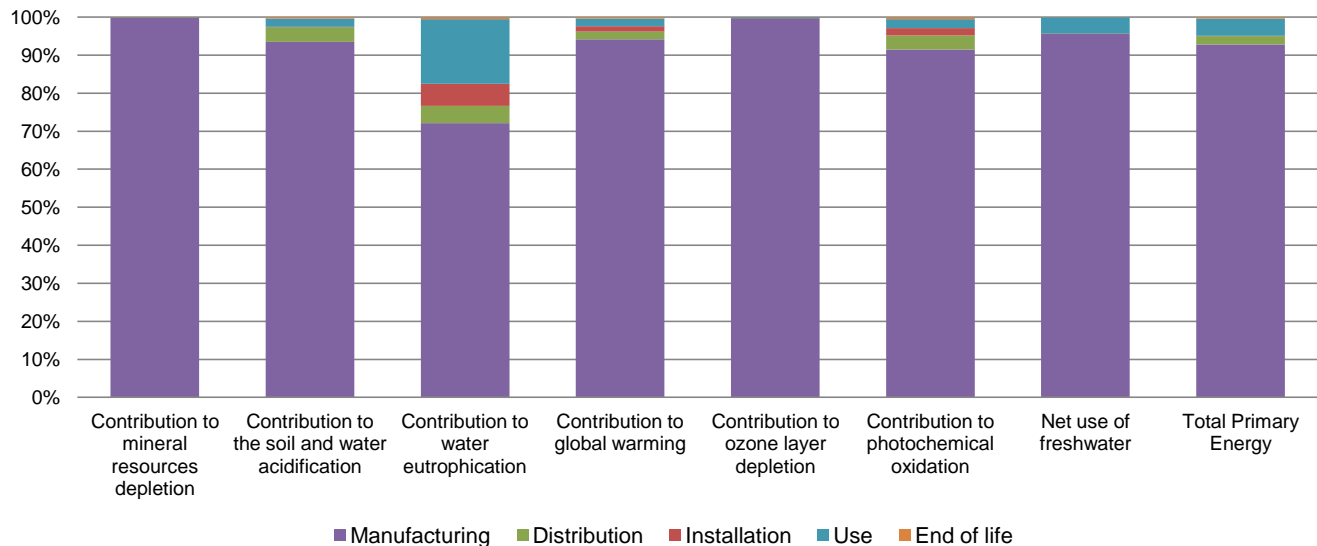
<b>Design</b>	These wireless products provide a cleaner environment for the users with regard to eliminating the need for wires, trenches, conduit, etc. This reduced the use of copper conductors when employed. The unit's inherent design requires far less energy to operate.
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 1067.3 g, consisting of Cardboard (98%) and Paper (2%).
<b>Installation</b>	The product does not require any special installation materials or operations. Installation is to be performed by qualified personnel.
<b>Use</b>	Product maintenance requires monitoring of battery status and battery replacement as needed. Some users of this product may require calibration services be performed on the unit if a certain levels of accuracy is required. (Calibration activities may vary and are not included in the assessment model)
<b>End of life</b>	<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: Battery (93 g) and PCBAs (42.8 g and 19.4 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><a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a></p> <p>Recyclability potential: <b>82%</b> 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

<b>Reference life time</b>	10 years			
<b>Product category</b>	Active products			
<b>Installation elements</b>	End of life of the product packaging is accounted for during the installation phase. No other special materials or processes required.			
<b>Use scenario</b>	The product use phase is powered by batteries, which can last three to five years. The expected number of batteries required during the product lifetime (use phase) is modeled as one original and two replacements.			
<b>Geographical representativeness</b>	The product can be used in all regions, but the majority of product is deployed in the U.S. and Canada.			
<b>Technological representativeness</b>	The means of material production, processing and transport modeled are representative of the technologies used in production.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Asia, EU and global	N/A	N/A	N/A

Compulsory indicators		Accutech GP/GL/AP/DP Field Unit - TBUAGPFQ1N00S10KA					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6,23E-03	6,22E-03	0*	0*	4,84E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	2,53E-01	2,36E-01	9,79E-03	2,84E-04	5,41E-03	9,88E-04
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	5,01E-02	3,61E-02	2,25E-03	2,91E-03	8,54E-03	2,49E-04
Contribution to global warming	kg CO <sub>2</sub> eq	1,05E+02	9,92E+01	2,18E+00	1,52E+00	2,09E+00	4,05E-01

Contribution to ozone layer depletion	kg CFC11 eq	2,36E-04	2,35E-04	0*	0*	6,52E-07	2,49E-08	
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	1,89E-02	1,73E-02	6,96E-04	3,68E-04	4,42E-04	1,04E-04	
<b>Resources use</b>		<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Net use of freshwater	m3	8,44E-01	8,07E-01	1,95E-04	0*	3,61E-02	5,59E-04	
Total Primary Energy	MJ	1,38E+03	1,28E+03	3,08E+01	9,63E-01	6,32E+01	4,99E+00	



Optional indicators		Accutech GP/GL/AP/DP Field Unit - TBUAGPFQ1N00S10KA						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	1,22E+03	1,16E+03	3,06E+01	9,23E-01	3,30E+01	4,90E+00	
Contribution to air pollution	m <sup>3</sup>	1,14E+04	1,11E+04	8,93E+01	6,95E+00	1,96E+02	3,79E+01	
Contribution to water pollution	m <sup>3</sup>	7,89E+03	6,97E+03	3,58E+02	8,73E+01	4,29E+02	3,89E+01	
<b>Resources use</b>		<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Use of secondary material	kg	1,33E+00	1,33E+00	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	6,36E+01	6,23E+01	4,11E-02	0*	1,21E+00	0*	
Total use of non-renewable primary energy resources	MJ	1,32E+03	1,22E+03	3,08E+01	9,62E-01	6,20E+01	4,98E+00	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3,95E+01	4,03E+01	4,11E-02	0*	0*	5,34E-03	
Use of renewable primary energy resources used as raw material	MJ	2,41E+01	2,20E+01	0*	0*	2,13E+00	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,31E+03	1,21E+03	3,08E+01	9,62E-01	5,69E+01	4,98E+00	
Use of non renewable primary energy resources used as raw material	MJ	1,33E+01	8,21E+00	0*	0*	5,05E+00	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*	
<b>Waste categories</b>		<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Hazardous waste disposed	kg	8,96E+01	8,28E+01	0*	0*	2,89E+00	3,87E+00	
Non hazardous waste disposed	kg	1,18E+02	1,12E+02	7,74E-02	1,07E+00	4,51E+00	8,13E-02	
Radioactive waste disposed	kg	5,97E-02	5,82E-02	5,51E-05	0*	1,41E-03	2,44E-05	
<b>Other environmental information</b>		<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Materials for recycling	kg	3,17E+00	3,70E-01	0*	0*	2,06E-01	2,59E+00	
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	3,60E-02	2,00E-03	0*	0*	8,00E-03	2,60E-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 - mass of battery pack replacements during the product 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-00231-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH08	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	07/2017	Validity period	5 years
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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