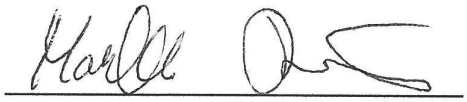
Polar Electro
Environmental Declaration
10.0

Kempele 07.08.2020



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1 Introduction

This declaration is based on the recommendations of ECMA 370 standard (European Computer Manufacturer's Association, The Eco Declaration standard 370, www.ecma-international.org). ECMA 370 is a guideline standard giving a harmonized method for companies to declare the environmental impacts of their products. Polar Electro has taken the freedom to modify the Ecma-370 forms to match better with the company specific needs.

Polar Electro's declaration is substantially depending on the formal declarations given/published by the material vendors.

2 Scope

Chapter 3, Company Environmental Profile	This covers all Polar Electro products including standard products and technology modules (OEM products).
Chapter 4, Product Environmental attributes	This covers Polar Electro's standard Heart Rate Monitoring and Activity Monitoring products listed on Polar Electro's Internet site (www.polar.com) except Team Sports and Club Solution products. Technology modules (OEM products) are not covered.
Chapter 5, Compliance with regulatory requirements	This covers all Polar Electro products including standard products and technology modules (OEM products).

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3 Company environmental profile

Brand	**Polar**	Logo
Company name *	**Polar Electro Oy**	
Contact information *	**Markku Räinä, Senior Manager, Quality** **Professorintie 5** 90440 Kempele, Finland ***markku.raina@polar.com***	
Internet site *	**www.polar.com**	
Intended market *	☒ Global ☐ Europe ☐ Japan ☐ U.S. ☐ Other	
Additional information		

Quality control		**Requirement met**	
Item	Additional information regarding each item may be found under C6.	True	False
QC1	The company enforces an internal quality control system to ensure the correctness of this eco declaration	☒	☐
QC2	The company is a member of an eco declaration system that enforces regular independent quality control.	☐	☒

Company environmental profile - Legal requirements		**Requirement met**		
Item		True	False	n.a.
C1	*Product recycling*			
C1.1	The company participates in a system or has its own system for collection and recycling of end of life products in countries where the company puts them on the market and where required (see legal reference)	☒	☐	
C2	*Battery recycling*			
C2.1	The company participates in a system or has its own system for collection and recycling of batteries in countries where the company puts products on the market (see legal reference) or pays eco tax / fee where required.	☒	☐	
C3	*Packaging recycling*			
C3.1	The company participates in a system or has its own system for collection and recycling of packaging material in countries where the company puts products on the market and where required (see legal reference)	☒	☐	

Company environmental profile - Market requirements		**Requirement met**		
Item		True	False	n.a.
C4	*Environmental policy and environmental management*			
C4.1	The company has a documented environmental policy approved by the management.	☒	☐	
C4.2	The company has an environmental management system covering: Product development Manufacturing If so certified according to: ☐ ISO 14001 ☐ EMAS ☐ Other as specified in C6	 ☐ ☐	 ☒ ☒	
C4.3	The company regularly publishes an environmental report. If so, it meets the recommendations of ☐ The Global Reporting Initiative ☐ Other as specified in C6	☐	☒	☐
C5	*Recycling*			
C5.1	Information about the product, battery & packaging take back system (C1, C2, C3) is available in printed or electronic format.	☒	☐	
C6	*Additional information*			
	***QC1**: Polar Electro has ISO9001 certified Quality System covering operations in Finland, China and Malaysia*			

Reference	Declaration item
2012/19/EU (WEEE directive)	C1.1
2006/66/EC (Battery and accumulator directive)	C2.1
94/62/EC (Directive on packaging and packaging waste)	C3.1

4 Product environmental attributes

Brand	***POLAR***	*Logo*
Company name	***Polar Electro Oy***	
Contact information	***Markku Räinä, Senior Manager, Quality*** ***Professorintie 5*** 90440 Kempele, Finland ***markku.raina@polar.com***	
Internet site	***www.polar.com***	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product	All standard Heart Rate Monitoring and Activity Monitoring products listed on Polar Electro's Internet site (www.polar.com) except Team Sports and Club Solution products. Technology modules (OEM products) are not covered.
Issue date	
Intended market	☒ **Global** ☐ **Europe** ☐ **Japan** ☐ **U.S.** ☐ **Other**
Additional information	

Product environmental attributes - Legal requirements		**Requirement met**		
Item		True	False	n.a.
1	*Hazardous substances and preparations*			
1.1*	Products do comply with the current European RoHS Directive. (See legal reference and NOTE B1)	☒	☐	
1.2*	Products do not contain Asbestos (see legal reference) Comment: legal reference has no maximum concentration value.	☒	☐	
1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	☒	☐	
1.4*	Products do not contain more than; 0,005 % polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference)	☒	☐	
1.5 *	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference)	☒	☐	
1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 microgram/cm2/week (see legal reference) Comment: Max limit in legal reference when tested according to EN1811:2011-5	☒	☐	☐
1.7*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference) Comment: legal reference has no maximum concentration values	☒	☐	☐
1.8*	Textile and leather parts with direct skin contact do not contain Azo colourants that split aromatic amines max 0,003% by weight (see legal reference)	☒	☐	☐
2	*Batteries*			
2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0,0005% of mercury (for button cells only) by weight, or more than 0,004% of lead, it shall be marked with the chemical symbol of the metal concerned, Hg or Pb. Information on propped disposal is provided in user manual (see legal reference)	☒	☐	☐
2.2*	Button cells used in the product do not contain more than 2% by weight mercury. Other batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (see legal reference)	☒	☐	☐
2.3*	Batteries and accumulators are easily removable by either user or service providers (as dependent on design of the product). Exception: batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable" (see legal reference)	☒	☐	☐

3	***Safety, EMC connection to the telephone network and labelling***			
3.1*	The product complies with legally required safety standards as specified (see legal reference).	☒	☐	☐
3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	☒	☐	☐
3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecom devices (see legal reference).	☒	☐	☐
3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	☒	☐	☐
4	***Product packaging***			
4.1*	Packaging and packaging components do not contain lead, cadmium, mercury, and hexavalent chromium max 0,01% by weight of those together	☒	☐	☐
4.2*	Plastic packaging material is marked according to to ISO 11469 referring to ISO 1043 (see legal reference)	☒	☐	☐
4.3*	There is no “fumarate de diméthyle” in product neither are products put in contact with “fumarate de diméthyle” at any stage of production or storage	☒	☐	☐
4.4*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference) Comment : legal reference has no maximum concentration values	☒	☐	☐

Product environmental attributes – Market requirements – Environmental conscious design		**Requirement met**		
5	***Treatment information***			
5.1*	Information for recyclers/treatment facilities is available. (see legal reference)	☒	☐	☐
6	***Design***			
	Disassembly, recycling			
6.1*	Parts that have to be treated separately are easily separable	☒	☐	☐
6.2*	Plastic materials in covers/housing have no surface coating.	☐	☒	☐
6.3*	Plastic parts >100g consist of one material or of easily separable materials.	☐	☐	☒
6.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	☐	☐	☒
6.5*	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	☐	☒	☐
	Product lifetime			
6.6*	Upgrading can be done e.g. with processor, memory, cards or drivers	☒	☐	☐
6.7*	Upgrading can be done using commonly available tools	☒	☐	☐
6.8*	Spare parts are available after end of production for 3 to 5 years	☒	☐	☐
6.9*	Service is available after end of production for 3 to 5 years	☒	☐	☐
	Material and substance requirements			
6.10*	Electrical cable insulation material of power cables are halogen free (including PVC)	☒	☐	☐
6.11*	Electrical cable insulation material of signal cables are halogen free (including PVC)	☒	☐	☐
6.12*	All cover/housing plastic parts > 25g are halogen free	☐	☐	☒
6.13*	All printed circuit boards (without components) > 25g are halogen free	☐	☐	☒
6.14*	Chemical specifications of flame retardants in cover / housing plastic parts >25g according ISO 1043-4:	☐	☐	☒
6.15 *	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4:	☐	☐	☒
6.16*	Plastic parts >25g are free from flame retardant substances/preparations above 0.1% classified as R45/46, R50/51/53 and R60/61 *(67/548/EEC)*	☐	☐	☒
6.17*	Of total plastic parts´ weight >25g, recycled material content is %	☐	☐	☒
6.18*	Of total plastic parts´ weight >25g, biobased material content is %	☐	☐	☒
6.19*	Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg	☒	☐	☐

7 Energy consumption

7.1* For the product the following power levels or energy consumptions have been measured for products using batteries :

Product	Power consumption	Mode description
Training computer	10 uW	Storage mode
	15 mW	24/7 mode, typical
	1 W	All on mode max, typical
	100 mW	Training mode, typical
Sensor	3 uW…10 uW	Storage mode
	3 uW…100 uW	Stand by mode
	400 uW… 20 mW	Active mode

7.2* Information about the energy save function is provided with the product. ☐ ☐ ☒

7.3* The product meets the energy requirements of the following voluntary programs: ☐ ☐ ☒
ENERGY STAR version: Tier:
Others specify:

8 Emissions

Electromagnetic emissions

5kHz telemetry:

- The strength of the electromagnetic field at the transmitter is 5 uT (microtesla) and 1 nT (nanotesla) at 1 m distance.
- The maximum radiated power is less than 2 nW (nanowatts)

W.I.N.D telemetry, 2,4 GHz

- The maximum radiated power of Polar W.I.N.D. products is 1mW with less than 1% pulse ratio

Bluetooth telemetry:

- power level: Class 3 (max. 0dBm, 1mW) to Class1 (max. 20dBm, 100mW)

9 Packaging and documentation

9.1* Product plastic packaging is halogen free (including PVC) ☒ ☐ ☐

9.2* Specify media for user and product documentation (tick box):
Electronic ☒ Paper ☒ Other ☐

9.3* For paper user and product documentation do not contain chlorine bleached paper ☐ ☒ ☐

10 Additional information

Reference	Declaration item
2011/65/EU, 2015/863/EU (RoHS directive)	1.1
1907/2006/EC (REACH)	1.2, 1.4, 1.6, 1.7,
Regulation (EC) no. 2037/2000, 2038/2000, 2039/2000	1.3
Norwegian regulation relating restrictions on the use of certain dangerous chemicals 20.12.2002	1.5
2006/66/EC (Battery and accumulators directive)	2.1, 2.2, 2.3, 3.4
2006/95/EC (Low voltage directive)	3.1, 3.4
2004/108/EEC (new EMC directive)	3.2, 3.4
2014/53/EU (RED directive)	3.3, 3.4
2004/12/EC (Directive on packaging and packaging waste)	4.1
97/129/EC (Commission decision on identification system for packing materials)	4.2
2037/2000/EC Regulation on substances that deplete the ozone layer	4.4
2012/19/EU (WEEE directive)	3.4, 5.1

5 Compliance with regulatory requirements

5.1 RoHS

Reference: Directive on restriction of hazardous Substances, 2011/65/EU and its amendment 2015/863/EU

Compliance statements: All Polar Electro products released to European markets have been compliant with RoHS since the directive entered into force on 1.7.2006. Declaration of Conformity can be found: www.polar.com/support

5.2 China RoHS

Reference: China RoHS, GB/T26572_2011, Marking of China RoHS, SJ/T11364-2014

Compliance statements: All Polar Electro products released to Chinese markets have been compliant with China RoHS since the standards entered into force on 1.3.2007.

5.3 WEEE

Reference: Directive on waste electrical and electronic equipment, 2012/19/EU

Compliance statements: All Polar Electro released products to European markets have been compliant with WEEE since the directive entered into force on 1.8.2005.

5.4 Battery and Accumulator directive

Reference: Directive on batteries and accumulators and waste batteries and accumulators. 2006/66/EC

Compliance statements: All Polar Electro products have been compliant with the Battery and Accumulator since the directive entered into force on 6.9.2006.

5.5 Reach

Reference:: European Union Reach Directive, Registration, Evaluation, Authorization and Restriction of Chemicals. 1907/2006

Compliance statements: All Polar Electro products are compliant with the Reach Directive since the directive entered into force on 1.6.2007

Clarifications:

a) Compliance with registering requirement, clause 7
Polar Electro is not required to pre register or register chemical substances for REACH. Polar Electro is an “importer” of products as manufacturing is outside of EU. Products (“articles”) are not intended to release any substance during normal use of the products → no registration obligation for Polar Electro.

b) Compliance with existing restrictions, Annex XVII *Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (previously independent Marketing and Use Directive 76/769/EEC)*
Any of the products ("articles") of Polar do not include over the specified amount of applicable chemicals/substances listed in REACH annex XVII.

c) Awareness of forth-coming restrictions, Annex XIV *List of substances subject to authorization*
Polar Electro follows the development of Substances of Very High Concern (SVHC) list and takes necessary actions to comply with the requirements. Moreover Polar Electro follows the “Registry of Intentions” list that includes proposals to become a SVHC candidate. Candidates of SVHC as well as Registry of Intentions are published on www.echa.europa.eu (echa chem) website.

d) Communication down the supply chain, clause 33
If any candidate of SVHC is part of Polar product and exceeds 0,1 % of weight Polar Electro is committed to communicate the Safety Data Sheets down to Polar Electro’s customer. Polar Electro is ready to communicate the Safety Data Sheet to the end consumer within 45 days of the receipt of a request.
None of Polar Electro’s products include SVHC in amounts exceeding 0,1% of weight. Latest approved SVHC list is used for testing.

e) Notifying Echa

Polar Electro is committed to notify Echa (European Chemicals Agency) if any Polar Electro's product contains SVHC more than 0,1% of weight.

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5.6 ErP

Reference: Eco design of energy related products 2009/125/EC

Compliance statements: Polar Electro's products consume very low amount of energy (compared to many other industry sectors). This is why Polar Electro's products do not fall into the scope of the first phase of ErP. ErP is a guideline document.

5.7 Packaging and packaging Waste

Reference: Packaging and packaging waste, 94/62/EC

Compliance statements: All Polar Electro's products have been compliant with packing and packing waste directive since the directive entered into force on 20.12.1994.