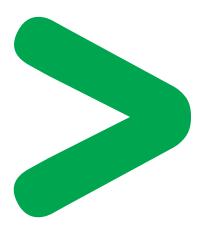
Product Environmental Profile

LexCom Home antenna amplifier R/TV









Product Environmental Profile - PEP

Product Overview -

The main function of this module of the LexCom Home Premium offer: Antenna Amplifier R/TV product range is to distribute the audio and video signals (65-862 MHz) from analog and digital sources.

This range consists of 3 modules

- A111-00: No return path function
- A111-30: Return path function (5-30 MHz)
- A111-65: Return path function (5-65 MHz)

The representative product used for the analysis is LexCom Home Premium - Antenna Amplifier R/TV A111-65 Ref: VDIR627165.

The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with the same technology.

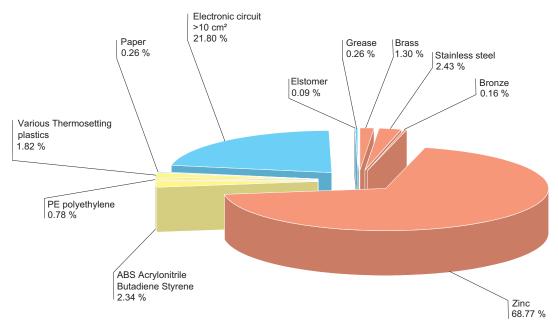
The environmental analysis was performed in conformity with ISO 14040 "Environmental management: Life cycle assessment – Principle and framework".

This analysis takes the stages in the life cycle of the product into account.

Constituent materials.

The mass of the range products spreads out between 350 g and 420 g packing excluded. It is 385 g for the LexCom Home Premium - Antenna Amplifier R/TV A111-65 Ref:VDIR627165.

The constituent materials are distributed as follows:



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2002/95/EC of 27 January 2003) and do not contain, or in the authorised proportions, lead, mercury, cadmium, chromium hexavalent, flame retardant (polybromobiphenyles PBB, polybromodiphenylthers PBDE) as mentioned in the Directive.

Manufacturing.

The LexCom Home Premium - Antenna Amplifier R/TV product range is manufactured at a Schneider Electric production site on which an ISO 14001 certified environmental management system has been established.

Distribution _

The weight and volume of the packaging have been reduced, in compliance with the European Union's packaging directive.

The LexCom Home Premium - Antenna Amplifier R/TV packaging weight is 48 g. It consists of Paper (Recycled, Without Deinking) 5 g, Cardboard (Duplex-Triplex) 43 g.

The product distribution flows have been optimised by setting up local distribution centres close to the market areas.

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Utilization _

The products of the LexCom Home Premium - Antenna Amplifier R/TV range do not generate environmental pollution requiring special precautionary measures (noise, emissions, and so on).

The dissipated power depends on the conditions under which the product is implemented and used.

The electrical power consumed by the LexCom Home Premium - Antenna Amplifier R/TV range spreads out between 5 W and 5.5 W. It is 5.04 W in active mode and 0 % in standby mode for the referenced LexCom Home Premium - Antenna Amplifier R/TV A111-65 Ref: VDIR627165.

This consumed power represents less than 1 % of the total power which passes through this product.

End of life ____

At end of life, the products in the LexCom Home Premium - Antenna Amplifier R/TV range can either be dismantled or grinded to facilitate the recovery of the various constituent materials.

The proportion of recyclable material is higher than 64 %.

This percentage includes the following materials: Zinc,

Electronic circuit > 10 cm², Paper (Recycled, With Deinking), ABS (Acrylonitrile Butadiene Styrene, moulded by injection), Silicon (Electronical grade), Copper, Steel (Stainless), Bronze (CuSn9P), PE polyethylene, FR4 laminate for PWB, Elastomer, PET (Polyethylene Terephthalate, Film).

The products of this range also include Electronic circuit > 10 cm² which have to be disassembled and which must be sent to specialised treatment systems.

The end of life details appear on the product end-of-life recovery sheet.

Environmental impacts -

The EIME (Environmental Impact and Management Explorer) software, version 4.0, and its database, version V10 were used for the life cycle assessment (LCA).

The assumed service life of the product is 10 years with a utilisation rate of the installation of 100 % and the electrical power model used is ON (ON, OFF, Stand by).

The scope of the analysis was limited to a LexCom Home Premium - Antenna Amplifier R/TV A111-65 Ref: VDIR627165.

The environmental impacts were analysed for the Manufacturing (M) phases, including the processing of raw materials, and for the Distribution (D) and Utilization (U) phases.

Presentation of the environmental impacts

Environmental indicators	Short	Unit	Antenna amplifier R/TV (1 unit)			
			S = M + D + U	М	D	U
Raw material depletion	RMD	Y-1	4.1314E ⁻¹³	4.081E ⁻¹³	3.9145E ⁻¹⁸	5.0319E ⁻¹⁵
Energy depletion	ED	MJ	5.4325E ³	9.3324E ²	2.809	4.496E ³
Water depletion	WD	dm³	1.3604E ³	6.6453E ²	5.6198E ⁻¹	6.9531E ²
Global warming	GW	g ~CO ₂	2.8188E ⁵	5.1971E⁴	1.5492E ²	2.2976E ⁵
Ozone depletion	OD	g ~CFC-11	2.659E ⁻²	6.7265E ⁻³	9.354E⁻⁵	1.977E ⁻²
Photochemical ozone creation	POC	g ~C ₂ H ₄	1.0139E ²	21.533	1.1775E ⁻¹	79.734
Air acidification	AA	g ~H⁺	46.913	10.531	2.0343E ⁻²	36.632
Hazardous waste production	HWP	kg	4.581	9.1933E ⁻¹	4.635E⁻⁵	3.662

The life cycle analysis shows that the Utilisation (U) phase is the life cycle phase which has the greatest impact on the majority of environmental indicators. The environmental parameters of this phase have been optimized at the design stage. For example, the choice of the different amplifier blocks have optimized regarding efficiency (current consumption regarding output power).

The product benefits from a new metallic case compare to the old one witch is plastic which allows to reduce its impact on environment. The environmental impacts variability between the upper part and the lower part of the range is less than 5 %.



Product Environmental Profile - PEP

System approach -

As the product 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 within an assembly or an installation submitted to this Directive.

N.B.: please note that the environmental impacts of the product depend on the use and installation conditions of the product.

Impacts values given above are only valid within the context specified and cannot be directly used to draw up the environmental assessment of the installation.

Glossary.

Raw Material Depletion (RMD)

This indicator quantifies the consumption of raw materials during the life cycle of the product. It is expressed as the fraction of natural resources that disappear each year, with respect to all the annual reserves of the material.

Energy Depletion (ED)

This indicator gives the quantity of energy consumed, whether it be from fossil, hydroelectric, nuclear or other sources.

This indicator takes into account the energy from the material produced during combustion. It is expressed in MJ.

Water Depletion (WD)

This indicator calculates the volume of water consumed, including drinking water and water from industrial sources. It is expressed in dm3.

Global Warming (GW)

The global warming of the planet is the result of the increase in the greenhouse effect due to the sunlight reflected by the earth's surface being absorbed by certain gases known as "greenhouse-effect" gases. The effect is quantified in gram equivalent of CO₂.

Ozone Depletion (OD)

This indicator defines the contribution to the phenomenon of the disappearance of the stratospheric ozone layer due to the emission of certain specific gases. The effect is expressed in gram equivalent of CFC-11.

Photochemical Ozone Creation (POC)

This indicator quantifies the contribution to the "smog" phenomenon (the photochemical oxidation of certain gases which generates ozone) and is expressed in gram equivalent of ethylene (C₂H₄).

Air Acidification (AA)

The acid substances present in the atmosphere are carried by rain. A high level of acidity in the rain can cause damage to forests. The contribution of acidification is calculated using the acidification potentials of the substances concerned and is expressed in mode equivalent of H+.

Hazardous Waste Production (HWP)

This indicator calculates the quantity of specially treated waste created during all the life cycle phases (manufacturing, distribution and utilization). For example, special industrial waste in the manufacturing phase, waste associated with the production of electrical power, etc. It is expressed in kg.

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We are committed to safeguarding our planet by "Combining innovation and continuous improvement to meet the new environmental challenges".

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