



ENVIRONMENTAL PRODUCT DECLARATION

SIMATIC ET 200SP Analog Module 6ES7134-6PA01-0CU0

Type II according to ISO 14021 including life cycle impact assessment (LCIA)



General information

This environmental product declaration (EPD) is based on the international standard ISO 14021 (“Environmental labels and declarations – Self declared environmental claims – Type II environmental labelling”). The data in this EPD has been evaluated on a full-scale life cycle assessment (LCA) study according to ISO 14040/44, taking into account the product category rules (PCR) for electronic and electrotechnical products and systems defined in EN 50693.

Siemens is dedicated to an environmentally conscious design of its products in line with IEC 62430 and has implemented an integrated management system according to ISO 9001, ISO 14001 and ISO 45001.

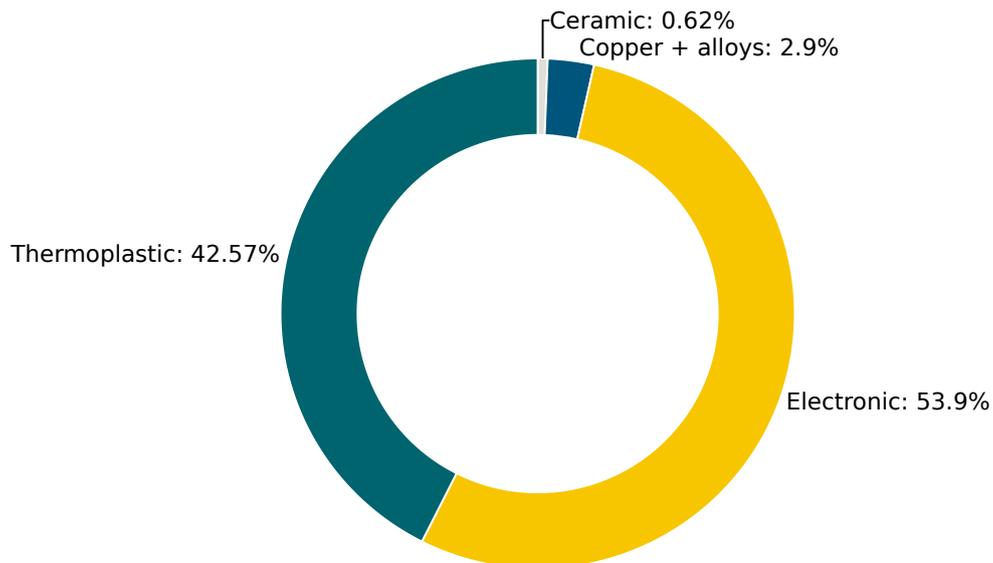
Products	Variants in the product family of ET 200SP analog input modules - please refer to link
Represented by the reference product	6ES7134-6PA01-0CU0
Product Description	SIMATIC ET 200SP, analog input module, AI Energy Meter CT HF, for 1A or 5A current transformer, with network analysis functions, suitable for BU type U0, channel diagnostics
Functional Unit	To manage analog signals over the reference service lifetime of 10 years ¹

¹ The lifetime value used for calculation is a reference value and does not equate with the minimum, average or real life time.

Material composition

The following chart outlines the overall material composition of the calculated reference product without packaging. Product weight of 0.05 kg adds up with packaging weight of 0.01 kg to a total weight of 0.06 kg. Packaging consists of cardboard and paper.

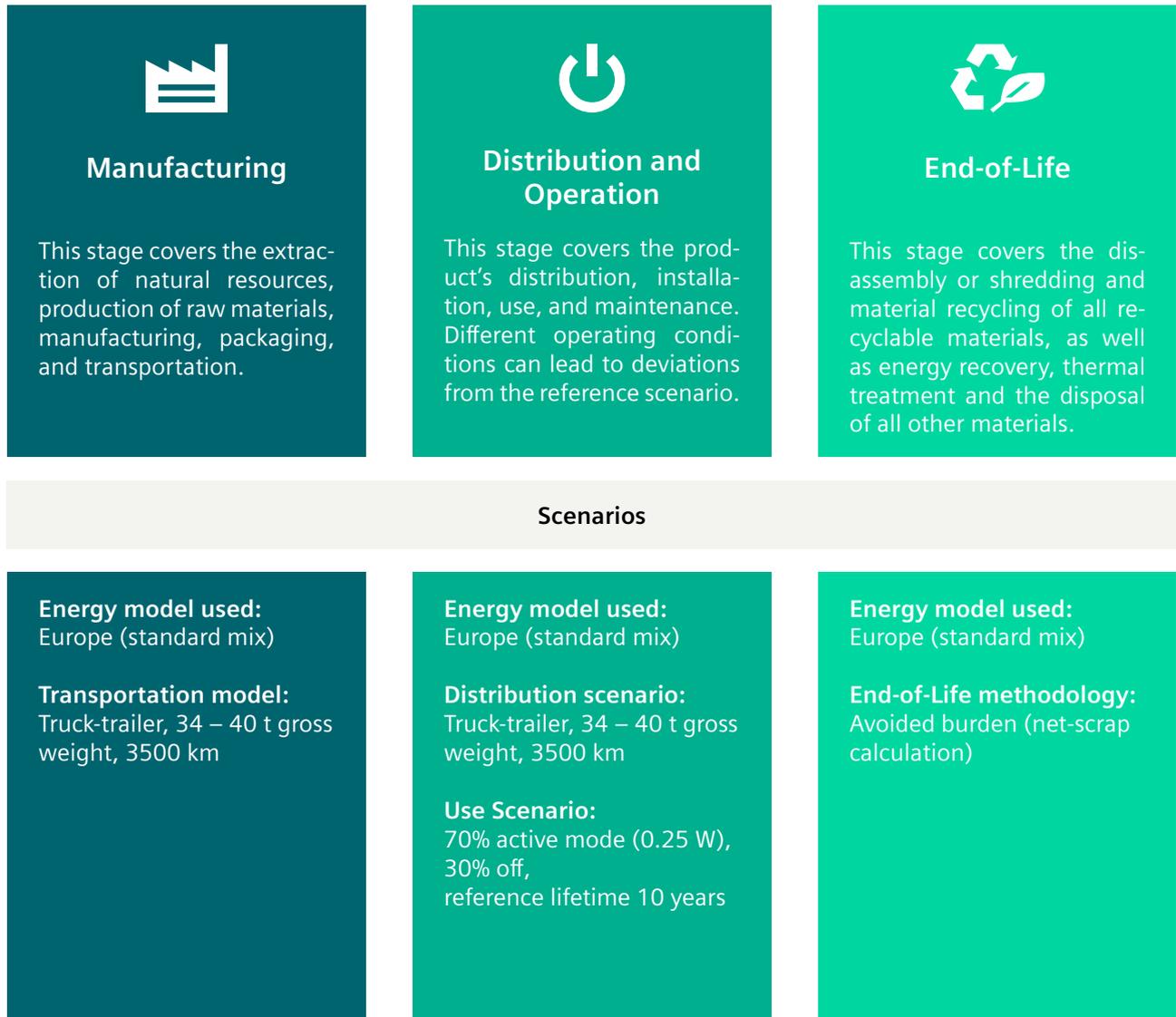
Product Weight 0.05 kg



Substance assessment

At Siemens, we are committed to the development and production of environmentally sound and sustainably produced equipment. This includes avoiding hazardous substances in our products without compromising their benefits for our customers. Please visit the following website to learn more about how we comply with product-related environmental regulations like RoHS, REACH, WEEE and others: [Product Related Environmental Protection](#)

Life cycle stages and reference scenarios



Key environmental performance indicators

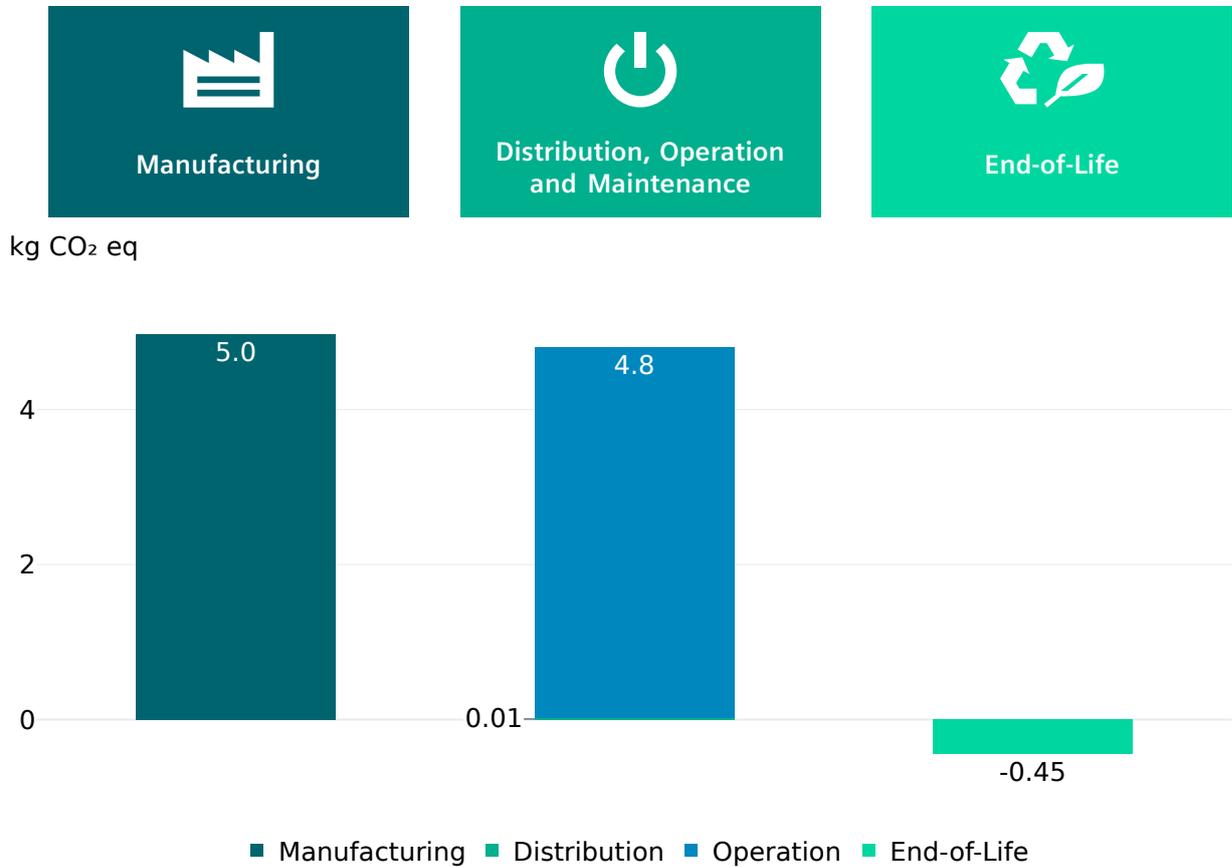
The following impact categories characterize the product's environmental footprint. They have been calculated with LCIA methodology EF3.1; LCA tool: Green Digital Twin (GDT), Database: One Siemens LCA Database (based on MLC CUP 2023.2, formerly GaBi).

Measurement setup of the energy consumption for the active mode in operation phase: power consumption of the whole module; room temperature, supply voltage 24 V, bus voltage 3.5 V, all channels active, no channel connected.

Impact Category	Unit	Total	Manufacturing	Distribution	Operation	End-of-Life
Acidification	Mole of H+ eq	2.95E-2	3.72E-2	1.80E-5	1.01E-2	-1.78E-2
Climate change – total	kg CO ₂ eq	9.32E+0	4.97E+0	1.40E-2	4.79E+0	-4.49E-1
Climate change – fossil	kg CO ₂ eq	9.27E+0	4.96E+0	1.39E-2	4.74E+0	-4.48E-1
Climate change – biogenic	kg CO ₂ eq	5.33E-2	1.23E-2	3.76E-5	4.20E-2	-1.02E-3
Climate Change, land use and land use change	kg CO ₂ eq	2.87E-3	2.63E-3	1.30E-4	5.17E-4	-2.82E-4
Ecotoxicity, freshwater – total	CTUe	5.40E+1	2.83E+1	1.37E-1	2.77E+1	-2.16E+0
Eutrophication, freshwater	kg P eq	3.83E-5	2.08E-5	5.12E-8	1.78E-5	-3.23E-7
Eutrophication, marine	kg N eq	5.63E-3	4.12E-3	6.09E-6	2.42E-3	-9.23E-4
Eutrophication, terrestrial	Mole of N eq	5.98E-2	4.45E-2	7.32E-5	2.53E-2	-1.01E-2
Human toxicity, cancer – total	CTUh	2.56E-9	1.32E-9	2.77E-12	1.47E-9	-2.32E-10
Human toxicity, non-cancer – total	CTUh	6.79E-8	4.87E-8	1.23E-10	2.34E-8	-4.26E-9
Ionising radiation, human health	kBq U235 eq	3.13E+0	5.02E-1	5.34E-5	2.63E+0	-3.86E-3
Land Use	dimensionless (pt)	5.15E+1	1.29E+1	7.96E-2	3.93E+1	-7.68E-1
Ozone depletion	kg CFC-11 eq	1.04E-9	9.51E-10	1.82E-15	8.76E-11	-6.78E-13
Particulate matter	Disease incidences	3.19E-7	3.86E-7	1.31E-10	8.51E-8	-1.52E-7
Photochemical ozone formation, human health	kg NMVOC eq	1.60E-2	1.30E-2	1.55E-5	6.46E-3	-3.42E-3
Resource use, fossils	MJ	1.66E+2	7.19E+1	1.91E-1	9.96E+1	-6.03E+0
Resource use, mineral and metals	kg Sb eq	-1.71E-5	3.04E-4	9.28E-10	7.33E-7	-3.21E-4
Water use	m ³ world eq	1.90E+0	1.04E+0	1.69E-4	1.04E+0	-1.85E-1

Climate change

This chart shows the overall impact of the product on climate change – total. The manufacturing phase is the lifecycle phase with the biggest overall impact. Different operating conditions can lead to deviations from the reference scenario.



End-of-Life results

The End-of-Life stage was modelled by shredding of the device, followed by sorting and material separation process.



It leads to:

- an overall **product recyclability of up to 19%** mainly due to metal content
- an **energy recoverability of up to 52%** from plastic materials
- a **minimum disposal rate of 29%**

The exact final values depend on the used recycling process and add up to 100%.

Note: The device should not be disposed of as unsorted municipal waste. Special treatment for specific components may be mandated by law or recommended for environmental reasons. Observe all local and applicable laws.

Legal Disclaimer

This Environmental Product Declaration (EPD) is for information purposes only. It is based upon the standards mentioned above. This EPD does not warrant or guarantee the composition of a product or that the product will retain a particular composition for a particular period. Therefore, all warranties, representations, conditions, and all other terms of any kind whatsoever implied by statute or common law are – to the fullest extent permitted by applicable law – excluded.

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Please be aware that the data of this EPD cannot be compared with data calculated based upon product category rules (PCRs) other than the standards mentioned above. The values given are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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Siemens AG
Digital Industries
Factory Automation
Gleiwitzer Str. 555
90475 Nürnberg-Moorenbrunn
Germany

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