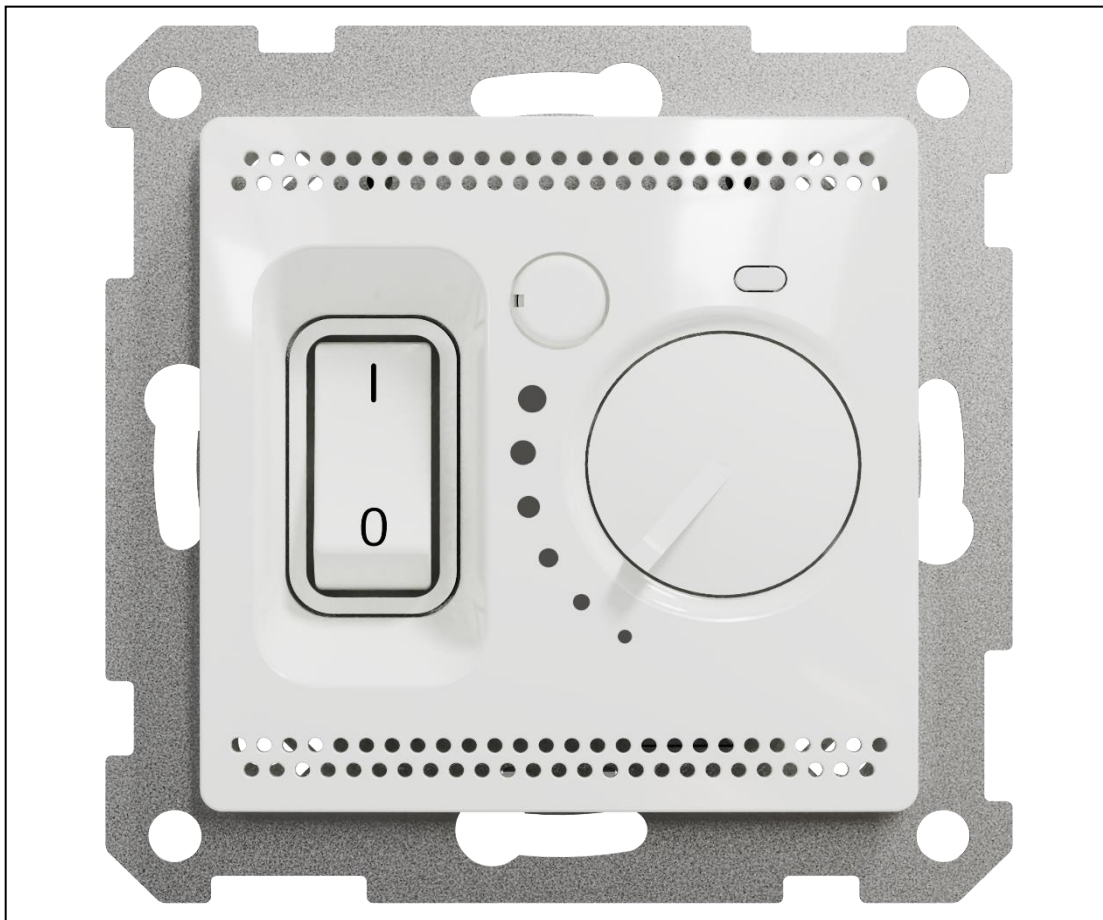


# Product Environmental Profile

## SEDNA FLOOR THERMOSTAT





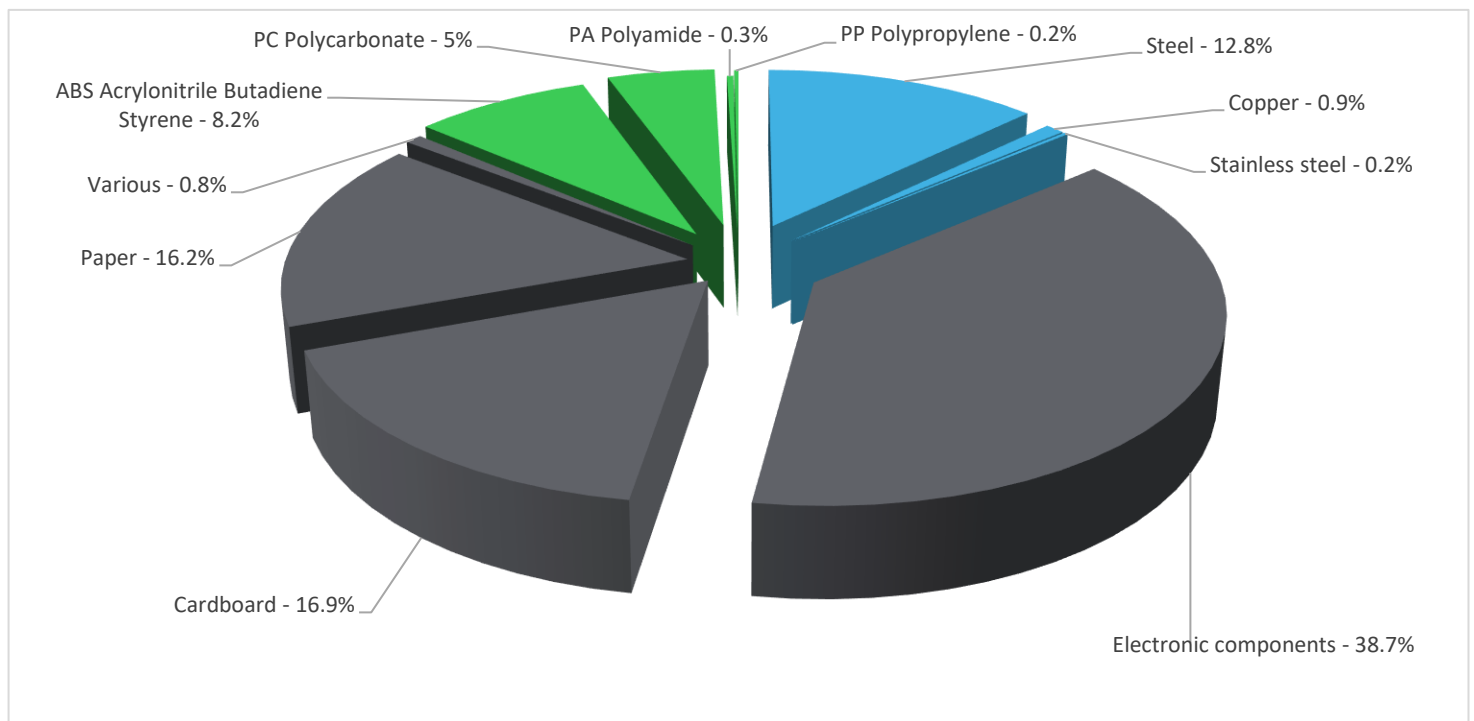
## General information

<b>Representative product</b>	SEDNA FLOOR THERMOSTAT - SDD111507
<b>Description of the product</b>	The thermostat is designed for installation in wall box and aimed for controlling the floor temperature in a room. It includes an ON/OFF switch and a rotary knob for setting the temperature between 5-50°C. The product range does not require special maintenance operations
<b>Functional unit</b>	Control during 10 years the ambient temperature in a zone according to a temperature set by the user in a range of 5-30°C, with a temperature step of 1°C and characterized by a rated current 16A, 230V, $\cos\phi=1$ and a current of 16A when the contact is closed (heating/air conditioning is on).



## Constituent materials

**Reference product mass** 232 g including the product, its packaging and additional elements and accessories



Plastics	13.7%
Metals	13.9%
Others	72.6%



## 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

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 SEDNA FLOOR THERMOSTAT presents the following relevant environmental aspects

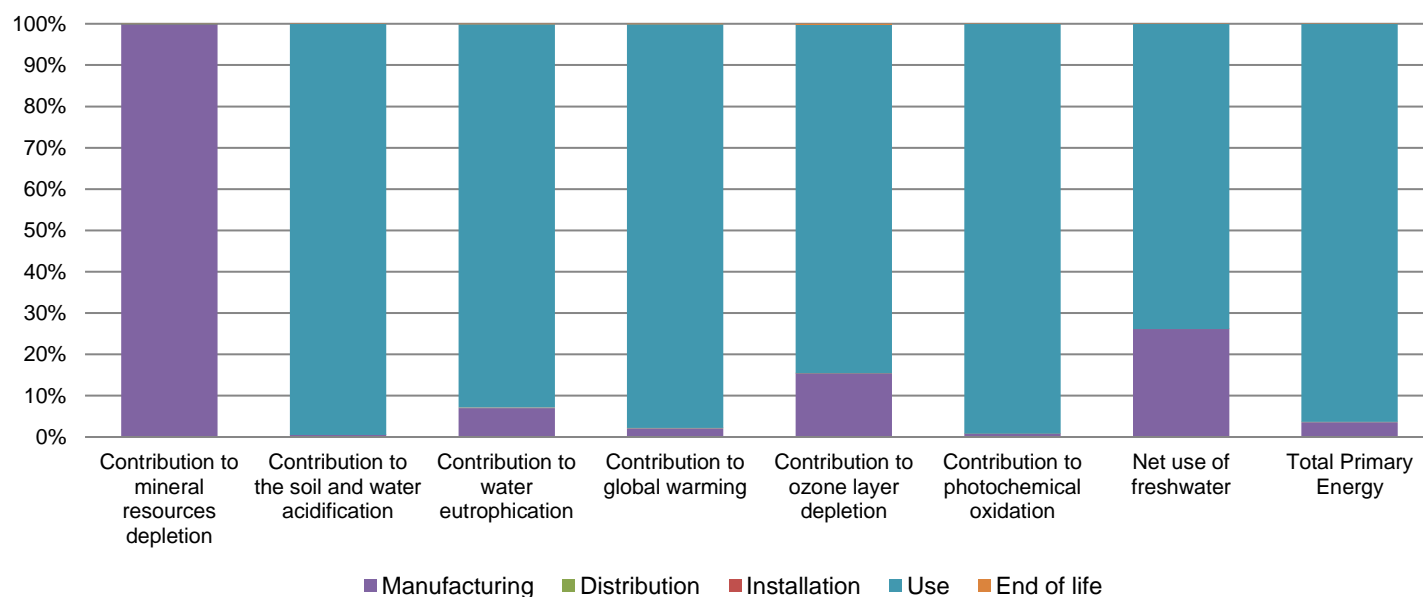
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 78.6 g, consisting of PP (1%), cardboard (48%), paper (51%)  Product distribution optimised by setting up local distribution centres
<b>Installation</b>	SEDNA FLOOR THERMOSTAT SDD111507 is designed for installation in wall box.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains electronic card (7.1g), NTC coil/cable (50g) that should be separated from the stream of waste so as to optimize end-of-life treatment.  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  <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>  Recyclability potential: <b>55%</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).



## Environmental impacts

<b>Reference life time</b>	10 years			
<b>Product category</b>	Thermostats			
<b>Installation elements</b>	Packaging is being disposed during installation process.			
<b>Use scenario</b>	Load rate of the product: 100% of 16A during 65% of the RLT Load rate of the closed contact : 30% of IL during 14% of the RLT			
<b>Geographical representativeness</b>	Europe, Russia			
<b>Technological representativeness</b>	The thermostat is designed for installation in wall box and aimed for controlling the floor temperature in a room. It includes an ON/OFF switch and a rotary knob for setting the temperature between 5-50°C. The product range does not require special maintenance operations			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Latvia	Electricity Mix; AC; consumption mix, at consumer; 220V; PL, 220V; RU, 230V; RO, 220V; HU	Electricity Mix; AC; consumption mix, at consumer; 220V; PL, 220V; RU, 230V; RO, 220V; HU	Electricity Mix; AC; consumption mix, at consumer; 220V; PL, 220V; RU, 230V; RO, 220V; HU

Compulsory indicators		SEDNA FLOOR THERMOSTAT - SDD111507					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6.47E-04	6.46E-04	0*	0*	9.41E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	7.65E-01	3.83E-03	1.37E-04	0*	7.61E-01	8.51E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2.29E-02	1.59E-03	3.15E-05	4.45E-06	2.12E-02	3.55E-05
Contribution to global warming	kg CO <sub>2</sub> eq	7.23E+01	1.54E+00	2.99E-02	0*	7.06E+01	1.12E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.45E-06	2.23E-07	0*	0*	1.22E-06	4.47E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	4.04E-02	3.17E-04	9.75E-06	0*	4.01E-02	8.48E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.24E-01	3.23E-02	0*	0*	9.12E-02	8.22E-05
Total Primary Energy	MJ	7.83E+02	2.84E+01	4.23E-01	0*	7.54E+02	4.83E-01



Optional indicators		SEDNA FLOOR THERMOSTAT - SDD111507					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6.42E+02	1.76E+01	4.21E-01	0*	6.23E+02	3.32E-01
Contribution to air pollution	m <sup>3</sup>	6.65E+03	2.13E+02	1.27E+00	0*	6.43E+03	3.10E+00
Contribution to water pollution	m <sup>3</sup>	3.60E+03	1.90E+02	4.92E+00	6.47E-01	3.35E+03	5.75E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	8.12E-02	8.12E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	5.32E+01	2.81E+00	0*	0*	5.03E+01	0*
Total use of non-renewable primary energy resources	MJ	7.30E+02	2.56E+01	4.23E-01	0*	7.04E+02	4.82E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.32E+01	2.81E+00	0*	0*	5.03E+01	0*
Use of renewable primary energy resources used as raw material	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.27E+02	2.28E+01	4.23E-01	0*	7.04E+02	4.82E-01
Use of non renewable primary energy resources used as raw material	MJ	2.82E+00	2.82E+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	5.14E+00	3.83E+00	0*	0*	9.94E-01	3.17E-01
Non hazardous waste disposed	kg	2.70E+02	7.33E-01	0*	0*	2.70E+02	0*
Radioactive waste disposed	kg	8.86E-03	3.54E-04	0*	0*	8.50E-03	2.74E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.79E-01	1.47E-02	0*	7.79E-02	0*	8.63E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.60E-02	0*	0*	0*	0*	1.60E-02
Exported Energy	MJ	2.47E-04	2.32E-05	0*	2.24E-04	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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.

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		<i>Validity period</i>	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
<i>Internal</i>		<i>External</i>	X
<i>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</i>			
<i>PEP are compliant with XP C08-100-1 :2016</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			



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