# **Product Environmental Profile**

### Vighilhom insulation monitor IM400C







#### General information

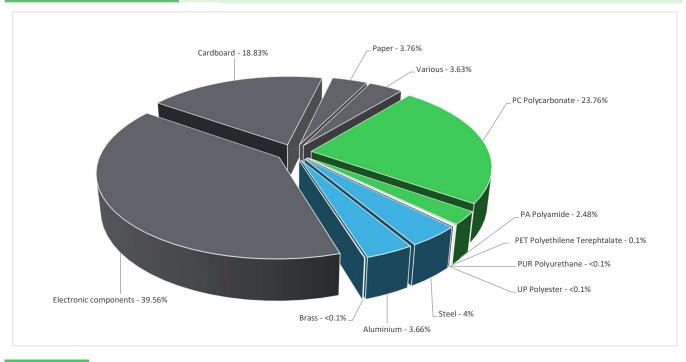
Reference product	Vighilhom insulation monitor IM400C - IMD-IM400C
Description of the product	This device belongs to the Vigilohm range designed to monitor ungrounded/IT electrical networks, in accordance to installation and products standards. According to standards, it is recommanded to equip your systems with Insulation Monitoring Devices (IMD).
Functional unit	This device is dedicated to monitoring large and disturbed AC, DC and ACDC systems, including large photovoltaic applications. It mesures the system insulation resistance by injecting a low frequency AC current between the network and ground for 10 years.  IP degree of protection - Case: IP20, Front face: IP54 Standards - IEC 60364-4-41, IEC 61010-1, IEC 61557-8, IEC 60364-5-51

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### **Constituent materials**

Reference product mass

953 g including the product, its packaging and additional elements and accessories



 Plastics
 26.5%

 Metals
 7.7%

 Others
 65.8%

### Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <a href="https://www.se.com/ww/en/work/support/green-premium/">https://www.se.com/ww/en/work/support/green-premium/</a>

## (1) Additional environmental information

End Of Life

Recyclability potential:

10%

Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).



Reference service life time	10 years						
Product category	Other equipments - Active product						
Installation elements	Ref IMD-IM400C does not require any installation operations. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal).						
Use scenario	The product is in active mode 5% of the time with a power use of 15W and in stand-by mode 95% of the time with a power use of 10.54W for 10 years						
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.						
Geographical representativeness	Global						
	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
Energy model used		Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27			
	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC			
		Electricity Mix; Production mix; Low voltage; TR	Electricity Mix; Production mix; Low voltage; TR	Electricity Mix; Production mix; Low voltage; TR			

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

Mandatory Indicators	Vighilhom insulation monitor IM400C - IMD-IM400C							
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
impact maicators	Oille	Total	[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	6.84E+02	1.15E+02	2.75E-01	3.87E-01	5.67E+02	1.46E+00	-2.43E+00
Contribution to climate change-fossil	kg CO2 eq	6.84E+02	1.15E+02	2.75E-01	3.70E-01	5.66E+02	1.42E+00	-2.38E+00
Contribution to climate change-biogenic	kg CO2 eq	5.74E-01	1.17E-01	0*	1.72E-02	4.05E-01	3.52E-02	-4.73E-02
Contribution to climate change-land use and land use change	ge kg CO2 eq	3.87E-08	3.87E-08	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	6.36E-05	6.06E-05	2.42E-07	2.56E-08	2.70E-06	4.90E-08	-2.94E-07
Contribution to acidification	mol H+ eq	4.25E+00	6.30E-01	1.19E-03	1.54E-03	3.60E+00	1.82E-02	-1.42E-02
Contribution to eutrophication, freshwater	kg (PO4) <sup>3—</sup> eq	5.95E-04	7.52E-05	0*	2.80E-06	5.04E-04	1.24E-05	-1.00E-05
Contribution to eutrophication marine	kg N eq	5.53E-01	1.39E-01	5.49E-04	4.07E-04	4.01E-01	1.28E-02	-1.67E-03
Contribution to eutrophication, terrestrial	mol N eq	6.47E+00	1.49E+00	5.94E-03	3.07E-03	4.96E+00	7.05E-03	-1.71E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.85E+00	5.25E-01	1.95E-03	8.20E-04	1.32E+00	2.79E-03	-5.46E-03
Contribution to resource use, minerals and metals	kg Sb eq	6.14E-03	6.13E-03	0*	0*	1.92E-05	0*	-2.88E-04
Contribution to resource use, fossils	MJ	1.21E+04	1.49E+03	3.34E+00	4.03E+00	1.06E+04	1.55E+01	-3.86E+01
Contribution to water use	m3 eq	2.70E+02	2.08E+01	0*	1.65E-01	2.20E+01	2.27E+02	-8.67E-01

Additional indicators for the French regulation are available as well

Inventory flows Indicators			Vighilhom insulation monitor IM400C - IMD-IM400C					
laccantaine flacca	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
Inventory flows	Unit	Total	[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.60E+03	1.19E+01	0*	2.89E-01	1.58E+03	9.98E-01	1.57E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	4.26E+00	4.26E+00	0*	0*	0*	0*	-3.93E+00
Contribution to total use of renewable primary energy resources	MJ	1.60E+03	1.61E+01	0*	2.89E-01	1.58E+03	9.98E-01	-2.36E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.21E+04	1.48E+03	3.34E+00	4.03E+00	1.06E+04	1.55E+01	-3.86E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.29E+01	1.29E+01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.21E+04	1.49E+03	3.34E+00	4.03E+00	1.06E+04	1.55E+01	-3.86E+01
Contribution to use of secondary material	kg	1.88E-02	1.88E-02	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	6.94E+00	4.84E-01	0*	3.85E-03	5.12E-01	5.94E+00	-2.02E-02
Contribution to hazardous waste disposed	kg	1.02E+02	8.79E+01	0*	0*	1.35E+01	8.27E-01	-2.28E+01
Contribution to non hazardous waste disposed	kg	1.08E+02	1.75E+01	0*	1.26E+00	8.93E+01	3.16E-01	-8.08E+00
Contribution to radioactive waste disposed	kg	3.02E-02	1.89E-02	5.46E-05	1.69E-04	1.10E-02	1.93E-05	-1.93E-03
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.92E-01	0*	0*	2.13E-01	0*	7.90E-02	0.00E+00
Contribution to materials for energy recovery	kg	2.44E-08	2.44E-08	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

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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Date of issue	2023/12	Information and reference documents	www.pep-ecopassport.org				
		Validity period	5 years				
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016							
Internal X External							
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)							
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019							
The elements of the present PEP cannot be compared with elements from another program.							
Document in compliance with ISO 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »							

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