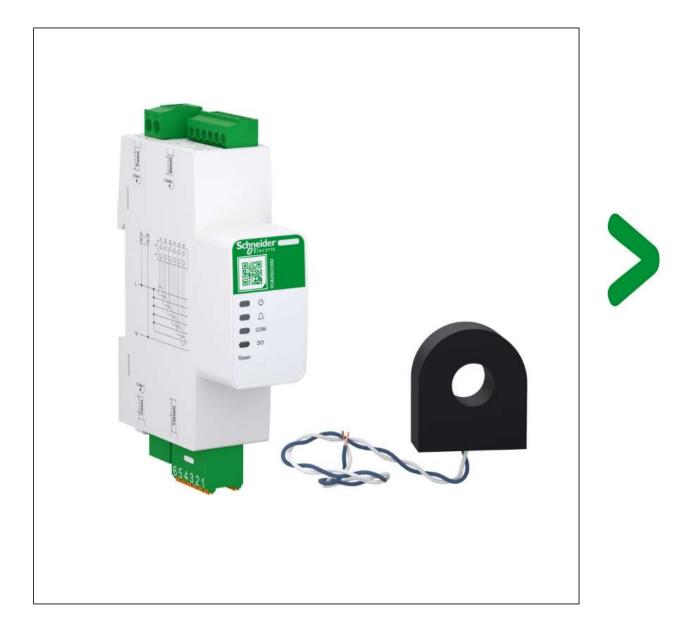
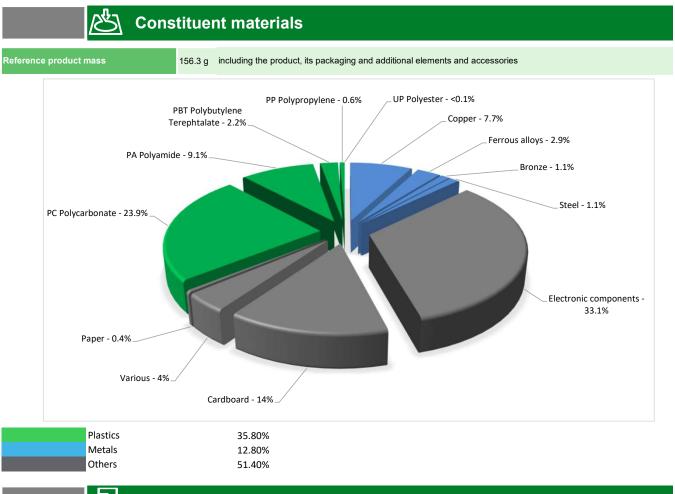
# **Product Environmental Profile**

### Energy sensor PowerTag Resi9 80A





General information								
Reference product	Energy sensor PowerTag Resi9 80A - R9M80X6M							
Description of the product	The energy sensor measures current, voltage, energy consumption, etc., which are required for monitoring single-phase electrical installations. It provides bidirectional active energy values, which are stored in the energy sensor's non-volatile memory. The energy sensor can provide both highly accurate measured values and average values. The physical measurement are made via the Resi9 current transformers 80A, R9MCT80. To visualize the measured values in KNX, you can connect SpaceLogic KNX spaceLYnk.							
Functional unit	The functional unit of the Energy sensor PowerTag Resi9 80A is to monitor electrical parameters (current, voltage, active power, active energy, etc.) with alarm and Modbus communication function for 10 years in accordance with : -Power: 100-240Vac, 50/60Hz, or 80-265Vdc -U:230V -U:230V -I:0.2-5(80)A -Impluse:400imp/kWh -Followed standards: IEC/EN/BS EN 61010-1, IEC/EN/BS EN 62052-11, IEC/EN/BS EN 62053-21, IEC/EN/BS EN 61557-12							



## **Substance assessment**

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

# (1) Additional environmental information

```
End Of Life
```

Recyclability potential: 15%

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	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).						
Use scenario	The product is in active mode 20% of the time with a power use of 1.5W and in stand-by mode 80% of the time with a power use of 0.5W, 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	EU,UK						
	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
Energy model used	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; UE-27 Electricity Mix; Production mix; Low voltage; UK	Electricity Mix; Production mix; Low voltage; UE-27 Electricity Mix; Production mix; Low voltage; UK	Electricity Mix; Production mix; Low voltage; UE-27 Electricity Mix; Production mix; Low voltage; UK			

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	Energy sensor PowerTag Resi9 80A - R9M80X6M							
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
impact multators			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	5.39E+01	1.55E+01	2.04E-02	4.15E-02	3.81E+01	2.85E-01	-1.17E-01
Contribution to climate change-fossil	kg CO2 eq	5.38E+01	1.55E+01	2.04E-02	3.97E-02	3.80E+01	2.78E-01	-1.13E-01
Contribution to climate change-biogenic	kg CO2 eq	7.12E-02	1.15E-02	0*	1.85E-03	5.04E-02	7.42E-03	-4.12E-03
Contribution to climate change-land use and land use change	kg CO2 eq	6.06E-08	1.94E-08	0*	0*	0*	4.12E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.09E-06	1.93E-06	0*	2.75E-09	1.58E-07	8.22E-09	-2.05E-08
Contribution to acidification	mol H+ eq	3.25E-01	1.07E-01	1.31E-04	1.65E-04	2.15E-01	2.93E-03	-2.45E-03
Contribution to eutrophication, freshwater	kg (PO4)³ <sup>–</sup> eq	2.30E-04	3.40E-05	0*	3.00E-07	1.06E-04	8.96E-05	-6.46E-07
Contribution to eutrophication marine	kg N eq	3.78E-02	1.14E-02	6.17E-05	4.36E-05	2.44E-02	1.88E-03	-1.12E-04
Contribution to eutrophication, terrestrial	mol N eq	5.05E-01	1.21E-01	6.77E-04	3.29E-04	3.82E-01	1.69E-03	-1.10E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.18E-01	3.99E-02	1.71E-04	8.80E-05	7.77E-02	5.58E-04	-4.51E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.82E-03	1.81E-03	0*	0*	2.86E-06	2.48E-06	-2.22E-05
Contribution to resource use, fossils	MJ	1.16E+03	1.82E+02	2.85E-01	4.32E-01	9.79E+02	2.94E+00	-1.46E+00
Contribution to water use	m3 eq	3.82E+01	4.44E+00	0*	1.77E-02	1.30E+00	3.24E+01	-1.42E-01

### Additional indicators for the French regulation are available as well

Inventory flows Indicators				Energy sensor Po	owerTag Resi9 8	DA - R9M80X6M		
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Loads and Benefits
			[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	2.03E+02	6.41E+00	0*	3.10E-02	1.96E+02	2.01E-01	1.92E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	4.52E-01	4.52E-01	0*	0*	0*	0*	-4.11E-01
Contribution to total use of renewable primary energy resources	MJ	2.03E+02	6.86E+00	0*	3.10E-02	1.96E+02	2.01E-01	-2.19E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.16E+03	1.80E+02	2.85E-01	4.32E-01	9.79E+02	2.94E+00	-1.46E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.48E+00	2.48E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.16E+03	1.82E+02	2.85E-01	4.32E-01	9.79E+02	2.94E+00	-1.46E+00
Contribution to use of secondary material	kg	1.89E-05	1.89E-05	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	9.83E-01	1.03E-01	0*	4.13E-04	3.03E-02	8.48E-01	-3.30E-03
Contribution to hazardous waste disposed	kg	2.97E+01	2.89E+01	0*	0*	6.94E-01	1.42E-01	-1.93E+00
Contribution to non hazardous waste disposed	kg	9.52E+00	4.05E+00	0*	1.35E-01	5.28E+00	5.80E-02	-6.12E-01
Contribution to radioactive waste disposed	kg	2.64E-03	1.52E-03	5.10E-07	1.81E-05	1.10E-03	2.79E-06	-3.99E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	4.25E-02	0*	0*	2.28E-02	0*	1.97E-02	0.00E+00
Contribution to materials for energy recovery	kg	3.69E-10	3.69E-10	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

\* 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.

Registration nu	imber :	ENVPEP2401003_V1	Drafting rules	PEP-PCR-ed4-2021 09 06				
Verifier accreditation N°		0	Supplemented by	PSR-0005-ed2-2016 03 29				
Date of issue		2024/01/30	Information and	www.pep-ecopassport.org				
			reference accuments	5 years				
Independent ve	Independent verification of the declaration and data, in compliance with ISO 14021 : 2016							
Internal	х	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 »								
Schneider Electric Industries SAS								
Country Customer Care Center								

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