

# Product Environmental Profile



## DIRIS Digiware BCM-1818 80A

Branch-circuit meter



### The commitments of Socomec to respect the environment

As part of its environmental policy, Socomec is committed to:

- Incorporate the principles of the circular economy into the design of new products and services
- Promote longer product lifetimes
- Promote the use of environmentally responsible materials
- Design and develop solutions to further improve the energy efficiency of our products and services
- Inform our customers in a transparent manner about the environmental impact of our products throughout their life cycle.

To this end, Socomec is committed to constantly monitoring, anticipating and complying with environmental regulations as well as customer expectations relating to its products, and to ensuring that all those involved adhere to and take responsibility for its commitments.

Socomec is member of :

**ecosystem**

Member of WEEE Europe



**Gimélec**

Environment and sustainable development commissions



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SOCOME C S.A.S

Head office : 1, rue de Westhouse – F – B.P.60010 – 67235 Benfeld Cedex

Tél : 03 88 57 41 41 – Fax : 03 88 57 78 78 – [www.socomec.com](http://www.socomec.com)

Contact : [http://www.socomec.com/contact-us\\_en.html](http://www.socomec.com/contact-us_en.html)

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Innovative Power Solutions

## • Product information :

### Reference product

The representative product is the DIRIS Digiware BCM-1818 80A with sales reference 48290165 with the following description: Branch-circuit meter

### References covered by this PEP :

48290165 DIRIS Digiware BCM-1818 80A

### Functional unit

Provide current acquisition for the measurement of electrical circuits up to 80A during 10 years.

## • Materials and substances

### Declaration of the constitutives materials according to IEC 62474

Total mass of the reference product (including packaging): 0,56 kg among which packaging: 0,0776 kg

For the DIRIS Digiware BCM-1818 80A

Metals		Plastics		Others	
	% weight		%weight		% weight
Copper and its alloys	16,3%	Others thermoplastics	39,4%	Other organics	16,4%
Other non-ferrous metals and alloys	11,2%	Other plastics	3,4%	Ceramics and glass	3,0%
Other ferrous alloys - non stainless steels	5,3%	PVC	<0,1%	Other inorganics	2,1%
Precious metals	2,0%				
Stainless steel	0,7%				
Nickel and its alloys	0,2%				
Aluminium and its alloys	<0,1%				
Magnesium and its alloys	<0,1%				
Zinc and its alloys	<0,1%				

## Substances management

Socomec is leading a program to limit the use of hazardous substances in the design of new products and to monitor the presence of substances of concern in its supplies to anticipate future use restrictions.



Directive 2011/65/EU : Product references covered by this PEP meet the requirements of the RoHS Directive on the restriction of substances such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB), polybrominated diphenyl ethers (PBDEs) and phthalates (DIBP, DEHP, BBP, DBP).



REACH 1907/2006 regulation: To the best of our knowledge, based on the supplier declarations, at the publication date of this document, the product do not contain any other SVHC in a concentration above 0,1% per weight.

## • Manufacturing



The products covered by this PEP are manufactured on the production site of Benfeld, France whose environmental management system has been ISO 14001 certified. Impacts on the environment are reduced by optimizing its energy consumption and by practicing a rigorous waste management.

## • Distribution

As part of its distribution policy aiming to respect the environment, Socomec is in favor of groupage transports and ISO 14001 certified logistic partners.

No reconditionning is planned for the product. This phase is consequently neglected.

The sizing of the packaging has been optimized to ensure the best possible protection of the product at the lowest possible volume in order to reduce the impact of the transport stage on the environment.

## • Installation

The installation stage consists in connecting the product to the existing electrical installation.

The installation does not generate any significant impacts on the environment, except impacts from packaging waste.

## • Use phase

### Consumption scenario

Use phase scenario: European energy mix

Use phase scenario	Active 100% of the time	
Mode	Power of the reference product (W)	Time distribution (%)
Active	1,6	100,000%

Product power consumption during its total lifespan (10 years): 140,16 kWh

### Care and maintenance

The product does not require any maintenance under normal conditions of use.

### Consumables

The product does not require consumables.

## • End of life

### End of life treatment

Products covered by this PEP do not contain hazardous components as defined in the Waste from Electrical and Electronic Equipment (WEEE) directive 2012/19/EU

### Recovery potential of the product according to IEC TR 62635

The total potential value of this product is 33,7%.

This potential value takes into account the material recycling and energy recovery.

## • Environmental impacts

### Calculation methodology: life cycle assessment (LCA)



The calculation of the impacts on the environment was made using a life cycle assessment methodology in accordance with the ISO 14040 requirements and with PEP eco passport product category rules. For more details follow the link:

[www.pep-ecopassport.org](http://www.pep-ecopassport.org)

This study was carried out with the following version of the software EIME and of the database:

EIME version: 5.9.4

Database version: CODDE-2022-01

The whole life cycle has been taken into account:

Step	Geographical representativeness	Scenario
<b>Manufacturing (M) (A1-A3)</b>	Production of electronic components : Asia Production of other components and packaging : Europe Assembly : France	From the raw material extraction to the last Socomec logistic platform, including packaging Waste generated during manufacturing phase are taken into account.
<b>Distribution (D) (A4)</b>	Distribution scenario : Europe	From the last Socomec logistic platform to the final customer. No product reconditioning.
<b>Installation (I) (A5)</b>	Transport and treatment of packaging wastes : Local	Local road transport of 1000 km of generated wastes to the treatment site, end of life treatment.
<b>Use phase (U) (B1-B7)</b>	Energy mix : Europe	Power consumption required during 10 years according to consumption scenario above mentioned.
<b>End of life (EOL) (C1-C4)</b>	Transport and treatment : Local	Road transport of 1000 km from the final customer to the treatment sites. End of life treatment.

## Environmental impacts of the DIRIS Digiware BCM-1818 80A

The following impacts have been calculated to best represent geographically, temporally and technologically each step of the life cycle.

Indicators	Unit	Total impact	M (A1-A3)	D (A4)	I (A5)	U (B1-B7)	EOL (C1-C4)
Resource use, minerals and metals (Abiotic resource depletion – Elements)	kg Sb eq.	2,89E-03	2,88E-03	0*	0*	4,91E-06	0*
Resource use, fossils (Abiotic resource depletion – Fossil fuels)	MJ	1,47E+03	2,71E+02	4,13E+00	1,79E-01	1,20E+03	1,28E+00
Acidification	mol H+ eq.	4,62E-01	1,24E-01	1,88E-03	8,99E-05	3,35E-01	5,94E-04
Ecotoxicity, freshwater	CTUe	6,47E+02	2,53E+02	2,00E-01	7,90E-01	3,92E+02	5,75E-01
Human toxicity, cancer	CTUh	2,22E-06	2,21E-06	0*	0*	5,77E-09	0*
Human toxicity, non-cancer	CTUh	1,31E-06	9,52E-07	5,63E-10	3,03E-10	3,55E-07	2,95E-10
Eutrophication, freshwater	kg P eq.	6,30E-05	4,35E-05	1,11E-07	0*	3,74E-06	1,56E-05
Eutrophication, marine	kg N eq.	6,05E-02	1,44E-02	8,79E-04	1,81E-04	4,48E-02	2,44E-04
Eutrophication, terrestrial	mol N eq.	6,51E-01	1,51E-01	9,65E-03	4,10E-04	4,87E-01	2,68E-03
Climate change - total	kg CO2 eq.	9,63E+01	1,93E+01	2,97E-01	1,68E-01	7,64E+01	1,08E-01
Climate change - fossil	kg CO2 eq.	6,22E+00	6,65E-02	0*	0*	6,16E+00	0*
Climate change - biogenic	kg CO2 eq.	9,00E+01	1,92E+01	2,97E-01	1,68E-01	7,03E+01	1,08E-01
Climate change - land use and land transformation	kg CO2 eq.	6,35E-08	6,35E-08	0*	0*	0*	0*
Ionising radiation, human health	kBq U235 eq.	5,40E+01	4,06E+01	0*	0*	1,35E+01	0*
Land use	No dimension	2,03E+01	9,52E-02	0*	0*	2,02E+01	0*
Ozone depletion	kg CFC-11 eq.	5,69E-06	3,31E-06	0*	0*	2,38E-06	1,16E-09
Particulate matter	disease occurrence	4,36E-06	7,03E-07	1,53E-08	6,81E-10	3,64E-06	4,58E-09
Photochemical ozone formation, human health	kg NMVOC eq.	1,92E-01	5,02E-02	2,43E-03	1,48E-04	1,38E-01	6,90E-04
Water use	m³ eq.	-3,66E+02	-3,88E+02	0*	0*	0*	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,82E+02	7,54E+00	0*	0*	1,74E+02	0*
Use of renewable primary energy resources used as raw material	MJ	1,78E+00	1,78E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,84E+02	9,32E+00	0*	0*	1,74E+02	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,46E+03	2,60E+02	4,13E+00	1,79E-01	1,20E+03	1,28E+00
Use of non renewable primary energy resources used as raw material	MJ	1,09E+01	1,09E+01	0*	0*	0*	0*
Total use of non-renewable primary energy resources	MJ	1,47E+03	2,71E+02	4,13E+00	1,79E-01	1,20E+03	1,28E+00
Use of secondary material	kg	9,83E-06	9,83E-06	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Total Primary Energy	MJ	1,66E+03	2,80E+02	4,14E+00	1,79E-01	1,37E+03	1,30E+00
Net use of freshwater	m³	-8,52E+00	-9,02E+00	0*	0*	0*	0*
Hazardous waste disposed	kg	4,74E+01	4,74E+01	0*	0*	3,58E-02	0*
Non hazardous waste disposed	kg	2,66E+02	9,23E+00	0*	7,81E-02	2,56E+02	5,25E-01
Radioactive waste disposed	kg	1,91E-01	1,99E-02	0*	0*	1,71E-01	0*
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for recycling	kg	4,05E-04	4,05E-04	0*	0*	0*	0*


Materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*
Exported Energy	MJ by energy vector	0,00E+00	0*	0*	0*	0*	0*

**Biogenic carbon content in the reference product:**

Biogenic carbon content of the product	kg of C	0,00E+00	0*	N/A	N/A	N/A	N/A
Biogenic carbon content of the associated packaging	kg of C	2,17E-02	2,17E-02	N/A	N/A	N/A	N/A

NB : 0\* means that this impact either represents less than 0.01% of the total life cycle of the reference flow, or has no impact (in the case where the total impact is zero).

For the use stage (U), the product does not require maintenance therefore the impacts values are representatives of the B6 phase from the use stage : "Energy requirements during the use stage"

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Independant verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal :	<input checked="" type="checkbox"/>	External :	<input type="checkbox"/>
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain) PEPs are compliant with XP C08-100-1 : 2016 or EN 50693:2019 The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations" <input type="checkbox"/>			

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