



Multifunction meter

Diris A14



The commitments of Socomec to respect the environment

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

- Develop innovating solutions primarily focused on energy efficiency to help its customer in the design of less energy-consuming, better managed and ecofriendly installations.
- Diversify its product offer in the renewable energy and energy efficiency sectors,
- Minimize the environmental impact of its industrial activities through the progressive ISO 14001 certification of its production sites,
- Minimize at the preliminary design stage the environmental impacts of its products taking into account their whole life cycle,
- Provide his customers with reliable data on the environmental performance of the products.

Socomec is member of :



Commissions environnement
et développement durable



■ Product information

Reference product

The representative product is the Diris A14 with sales reference 4825 0021

Functional unit

Perform multi-measurements for energy management, monitoring of facilities, and control of the energy quality during 10 years.

■ Material and substances

Declaration of the constitutive materials according to IEC 62474

Total mass of the reference product: 0,482 kg

Packaging is made of PEBD film (12,5kg), wood (509kg), cardboard (150 kg), galvanized sheet (22,5kg).

Total weight of the reference product including packaging: 0,482 kg (among which packaging: 0,194 kg and electronic parts: 0,1 kg).

Packaging is made of: 1 cardboard packaging, 1 piece of cardboard, 2 stickers.

Metals, 12,2% weight		Plastics, 38% weight		Others, 49,8% weight	
Copper and its alloys	4,8%	Others thermoplastics	35,2%	Others Organics	42,8%
Other Ferrous alloys, non-stainless steels	4%	Other plastics	2,8%	Ceramics and Glass	4,8%
Other non-ferrous metals and alloys	1,3%			Others Inorganics	2,2%
Nickel and its alloys	1,1%				
Aluminium and its alloys	0,7%				
Zinc and its alloys	0,1%				
Precious metals	<0,1%				
Stainless steel	<0,1%				

The estimated content of recycled materials is 33,2%, based on a Life Cycle Analysis model with EIME software.

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).



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 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 ISO14001 certified logistic partners.

No reconditioning is needed for this product.



The packaging complies with Directive 94/62/EC.

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.

Packaging design solutions favors mono-material recyclable cardboard without coloring or bleaching. The wedging of the packaged product is made of recycled cardboard, no polystyrene is used.

■ 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

Electrical consumption

Use phase scenario : *European energy mix*

Mode	Consumption of the reference product (W)	Time distribution (%)
Active	2	100

Electricity consumption during the total lifetime of the product (during 10 years) : 175,2 kWh

■ End of life

End of life treatment

The following parts require specific care and selective treatment in accordance with Annex VII of the WEEE Directive 2012/19/EU - Waste of electrical and electronic equipment. Maintenance and disassembly should always be conducted by qualified personnel.

Component type	Component	Weight	Position
Potential safety risk for the operator	LCD display	10 g	1
Selective treatment need	LCD display	10 g	1
	Lithium button cell	1 g	2
	PCBa	100 g	3



Recovery potential of the product according to IEC TR 62635

The total potential value of this product is 50,1 %.

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 This study was carried out with the version 5.8.1 of the software EIME with version database CODDE_2018_11. The software is distributed by CODDE which is a subsidiary of Bureau Veritas.

The whole life cycle has been taken into account:

Step	Geographical representativeness	Scenario
Manufacturing (M)	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.

Distribution (D)	Distribution scenario : Europe	From the last Socomec logistic platform to the final customer. No product reconditioning.
Installation (I)	Transport and treatment of packaging wastes : Local	Local road transport of 1000 km of generated wastes to the treatment site, and landfilling.
Use phase (U)	Energy mix : Europe	Power consumption required during 10 years according to the scenario above-mentioned.
End Of Life (EOL)	Transport and treatment : Local	Road transport of 1000 km from the final customer to the treatment sites. End of life treatment.


Environmental impacts

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

Indicators	Unité	Impact Total	M	D	I	U	EOL
Contribution to global warming	kg CO ₂ éq.	1,09E+0 2	2,31E+01	2,59E-01	4,25E-02	8,58E+01	6,61E-02
Contribution to ozone layer depletion	kg CFC-11 éq.	7,38E-06	1,78E-06	0*	0*	5,59E-06	9,84E-10
Contribution to the soil and water acidification	kg SO ₂ éq.	3,91E-01	3,18E-02	1,16E-03	1,75E-04	3,58E-01	2,72E-04
Contribution to water eutrophication	kg (PO ₄) ³⁻ éq.	3,00E-02	7,78E-03	2,67E-04	1,21E-04	2,16E-02	1,88E-04
Contribution to photochemical ozone formation	kg C ₂ H ₄ éq.	2,30E-02	3,17E-03	8,26E-05	1,31E-05	1,97E-02	2,03E-05
Contribution to the depletion of abiotic resources - elements	kg Sb éq.	5,76E-03	5,75E-03	0*	0*	7,46E-06	0*
Contribution to the depletion of abiotic resources - fossil fuels	MJ	1,26E+0 3	2,86E+02	3,63E+00	4,97E-01	9,74E+02	7,73E-01
Contribution to water pollution	m ³	5,25E+0 3	1,65E+03	4,25E+01	5,79E+00	3,54E+03	9,02E+00
Contribution to air pollution	m ³	5,92E+0 3	2,21E+03	1,06E+01	3,55E+00	3,69E+03	5,52E+00
Use of renewable primary energy (excl. raw materials)	MJ	2,20E+0 2	2,31E+00	0*	0*	2,18E+02	0*
Use of renewable primary energy used as raw materials	MJ	4,12E+0 0	4,12E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,24E+0 2	6,43E+00	0*	0*	2,18E+02	0*
Use of non-renewable primary energy (excl. raw materials)	MJ	1,82E+0 3	3,18E+02	3,65E+00	5,19E-01	1,50E+03	8,08E-01
Use of non-renewable primary energy used as raw materials	MJ	1,17E+0 0	1,17E+00	0*	0*	0*	0*
Total use of non-renewable primary energy resources	MJ	1,82E+0 3	3,19E+02	3,65E+00	5,19E-01	1,50E+03	8,08E-01
Use of secondary materials	kg	1,81E-01	1,81E-01	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+0 0	0*	0*	0*	0*	0*
Use of non-renewable secondary fuels	MJ	0,00E+0 0	0*	0*	0*	0*	0*
Net use of fresh water	m ³	3,12E+0 2	2,93E-01	0*	0*	3,11E+02	0*
Hazardous waste disposed of	kg	1,50E+0 1	1,49E+01	0*	0*	4,48E-02	0*
Non-hazardous waste disposed of	kg	3,31E+0 2	1,06E+01	0*	2,17E-01	3,20E+02	3,38E-01
Radioactive waste disposed of	kg	2,16E-01	2,68E-03	0*	0*	2,14E-01	0*
Components for reuse	kg	0,00E+0 0	0*	0*	0*	0*	0*
Materials for recycling	kg	0,00E+0 0	0*	0*	0*	0*	0*
Materials for energy recovery	kg	0,00E+0 0	0*	0*	0*	0*	0*
Exported energy	MJ par vecteur énergétique	0,00E+0 0	0*	0*	0*	0*	0*

Total use of primary energy during the life cycle	MJ	2,04E+03	3,25E+02	3,66E+00	5,26E-01	1,71E+03	8,18E-01
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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).

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

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