

Product Environmental Profile

Power Logic™ ION7400 Panel Mount Utility Meter

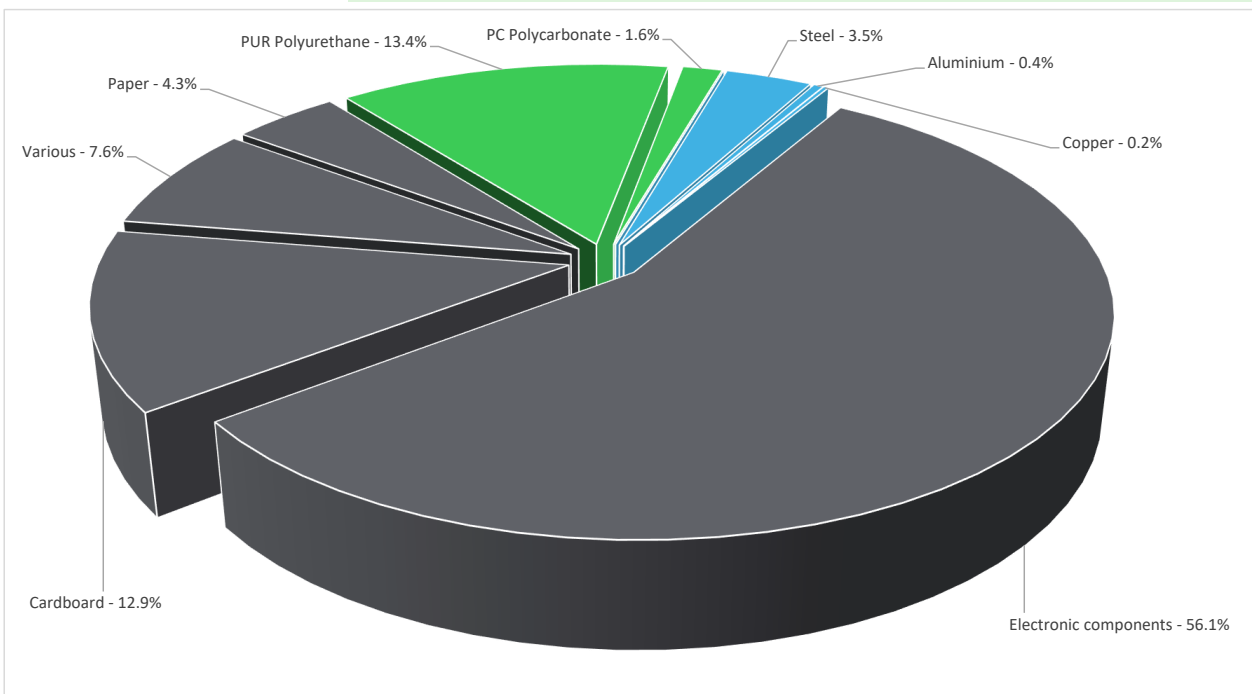


General information

Reference product	Power Logic™ ION7400 Panel Mount Utility Meter - METSEION7400
Description of the product	PowerLogic ION7400 utility feeder power meters combine capabilities not typically available in compact meters. The main purpose of the ION7400 meter is Class 0.2s power and energy metering. I/O option modules include 2 relays and 6 digital inputs or 2 analog outputs and 4 analog inputs. Wide control power range of 90-415 VAC / 110-415 VDC. Operating environment of -25 to +70C; Humidity rating of 5% to 95%; Altitude up to 3000 m.
Description of the range	Single product
Functional unit	To measure energy consumption and display the information on a screen, capable of operating within the following electrical parameters: The ION7400 Power Meter operates within voltage ranges of 90-415V (50/60Hz) at <36VA, 90-120V (400Hz) at <28VA, and 120-300V at 17W, with current ratings of 1A for 0.5 seconds and 5A for 0.2 seconds, designed for 10 years of use at a 100% rate, consuming 5W in active mode (10% of the time) and 4W in standby mode (90% of the time), all in compliance with relevant standards.
Specifications are:	Panel Mount Utility Meter is used to analyze voltage and current in the ranges of 90-415V at 50/60Hz < 36VA, 90-120V at 400Hz < 28VA, 120-300V at 17W, and 1A (0.5s) and 5A (0.2s) during 10 years and a 100% use rate, in accordance with the relevant standards. IP54 front: conforming to IEC 60529, IP30 body: conforming to IEC 60529.

Constituent materials

Reference product mass 1030 g including the product, its packaging, additional elements and accessories



Plastics	15.0%
Metals	4.1%
Others	80.9%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
<https://www.se.com>

**Additional environmental information**

End Of Life	Recyclability potential:	4%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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**Environmental impacts**

Reference service life time	10 years			
Product category	Other equipments - Active product			
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study			
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption			
Installation elements	The end of life of packaging is taken into account in the installation phase. All the assumptions are based on the PSR and can be found in the EOL packaging tab			
Use scenario	The product is in active mode 10 % of the time with a power use of 5watts (W) and standby mode 90 % of the time with a power use of 4watts (W). Total energy consumption of active parts (kWh) is 538.74kWh			
Time representativeness	The collected data are representative of the year 2024			
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.			
Geographical representativeness	Final assembly site	Use phase		End-of-life
	Canada	ROW		ROW
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Global, European and French datasets are used.	No energy used	Electricity Mix; Low voltage; 2020; Chile, CL Electricity Mix; Low voltage; 2020; Brazil, BR Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Peru, PE Electricity Mix; Low voltage; 2020; Colombia, CO	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

Mandatory Indicators		Power Logic™ ION7400 Panel Mount Utility Meter - METSEION7400						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	2.15E+02	6.74E+01	2.47E+00	0*	1.42E+02	2.54E+00	-9.85E-02
Contribution to climate change-fossil	kg CO2 eq	2.13E+02	6.68E+01	2.47E+00	0*	1.41E+02	2.54E+00	-9.83E-02
Contribution to climate change-biogenic	kg CO2 eq	1.21E+00	6.37E-01	0*	0*	5.70E-01	0*	-2.18E-04
Contribution to climate change-land use and land use change	kg CO2 eq	9.53E-05	9.53E-05	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.37E-05	1.10E-05	2.17E-06	0*	5.38E-07	2.08E-09	-1.46E-08
Contribution to acidification	mol H+ eq	1.29E+00	4.57E-01	1.02E-02	0*	8.16E-01	1.75E-03	-5.83E-04
Contribution to eutrophication, freshwater	kg P eq	2.57E-04	1.71E-04	2.88E-07	3.52E-08	7.16E-05	1.35E-05	-1.50E-07
Contribution to eutrophication marine	kg N eq	1.52E-01	5.56E-02	4.63E-03	4.53E-05	9.13E-02	8.58E-04	-5.69E-05
Contribution to eutrophication, terrestrial	mol N eq	2.11E+00	5.89E-01	5.02E-02	4.61E-04	1.46E+00	8.76E-03	-6.65E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.05E-01	1.95E-01	1.67E-02	1.11E-04	2.92E-01	2.13E-03	-2.32E-04
Contribution to resource use, minerals and metals	kg Sb eq	9.36E-03	9.28E-03	0*	0*	7.40E-05	0*	-3.17E-05
Contribution to resource use, fossils	MJ	3.38E+03	9.19E+02	3.06E+01	0*	2.43E+03	4.02E+00	-2.32E+00
Contribution to water use	m3 eq	3.30E+01	1.81E+01	1.25E-01	1.68E-02	1.47E+01	8.51E-02	-4.24E-02

Inventory flows Indicators		Power Logic™ ION7400 Panel Mount Utility Meter - METSEION7400						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.21E+03	2.70E+01	0*	0*	1.19E+03	0*	-1.83E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	4.53E+00	4.53E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	1.22E+03	3.16E+01	0*	0*	1.19E+03	0*	-1.83E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.37E+03	9.06E+02	3.06E+01	0*	2.43E+03	4.02E+00	-2.32E+00
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	3.38E+03	9.19E+02	3.06E+01	0*	2.43E+03	4.02E+00	-2.32E+00
Contribution to use of secondary material	kg	0.00E+00	0.00E+00	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	7.66E-01	4.19E-01	2.91E-03	3.92E-04	3.41E-01	1.98E-03	-9.88E-04
Contribution to hazardous waste disposed	kg	1.70E+02	1.66E+02	0*	0*	2.87E+00	6.00E-01	-2.50E+00
Contribution to non hazardous waste disposed	kg	4.78E+01	1.68E+01	0*	1.84E-01	3.05E+01	2.65E-01	-8.17E-02
Contribution to radioactive waste disposed	kg	1.24E-02	7.33E-03	4.90E-04	0*	4.58E-03	1.35E-05	-3.67E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.12E-02	4.58E-03	0*	0*	0*	6.66E-03	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	1.30E-04	6.41E-05	0*	0*	0*	6.59E-05	0.00E+00

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

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	5.59E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		Power Logic™ ION7400 Panel Mount Utility Meter - METSEION7400							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.42E+02	0*	0*	0*	0*	0*	1.42E+02	0*
Contribution to climate change-fossil	kg CO2 eq	1.41E+02	0*	0*	0*	0*	0*	1.41E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	5.70E-01	0*	0*	0*	0*	0*	5.70E-01	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	5.38E-07	0*	0*	0*	0*	0*	5.38E-07	0*
Contribution to acidification	mol H+ eq	8.16E-01	0*	0*	0*	0*	0*	8.16E-01	0*
Contribution to eutrophication, freshwater	kg P eq	7.16E-05	0*	0*	0*	0*	0*	7.16E-05	0*
Contribution to eutrophication marine	kg N eq	9.13E-02	0*	0*	0*	0*	0*	9.13E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	1.46E+00	0*	0*	0*	0*	0*	1.46E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.92E-01	0*	0*	0*	0*	0*	2.92E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	7.40E-05	0*	0*	0*	0*	0*	7.40E-05	0*
Contribution to resource use, fossils	MJ	2.43E+03	0*	0*	0*	0*	0*	2.43E+03	0*
Contribution to water use	m3 eq	1.47E+01	0*	0*	0*	0*	0*	1.47E+01	0*

Inventory flows Indicators		Power Logic™ ION7400 Panel Mount Utility Meter - METSEION7400							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.19E+03	0*	0*	0*	0*	0*	1.19E+03	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	1.19E+03	0*	0*	0*	0*	0*	1.19E+03	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.43E+03	0*	0*	0*	0*	0*	2.43E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	2.43E+03	0*	0*	0*	0*	0*	2.43E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	3.41E-01	0*	0*	0*	0*	0*	3.41E-01	0*
Contribution to hazardous waste disposed	kg	2.87E+00	0*	0*	0*	0*	0*	2.87E+00	0*
Contribution to non hazardous waste disposed	kg	3.05E+01	0*	0*	0*	0*	0*	3.05E+01	0*
Contribution to radioactive waste disposed	kg	4.58E-03	0*	0*	0*	0*	0*	4.58E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version v6.2.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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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		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	Information and reference documents	www.pep-ecopassport.org
Date of issue	03-2025	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal External X			
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
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"			



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