Product Environmental Profile

PM2220 POWER METER, RJ45 LVCT
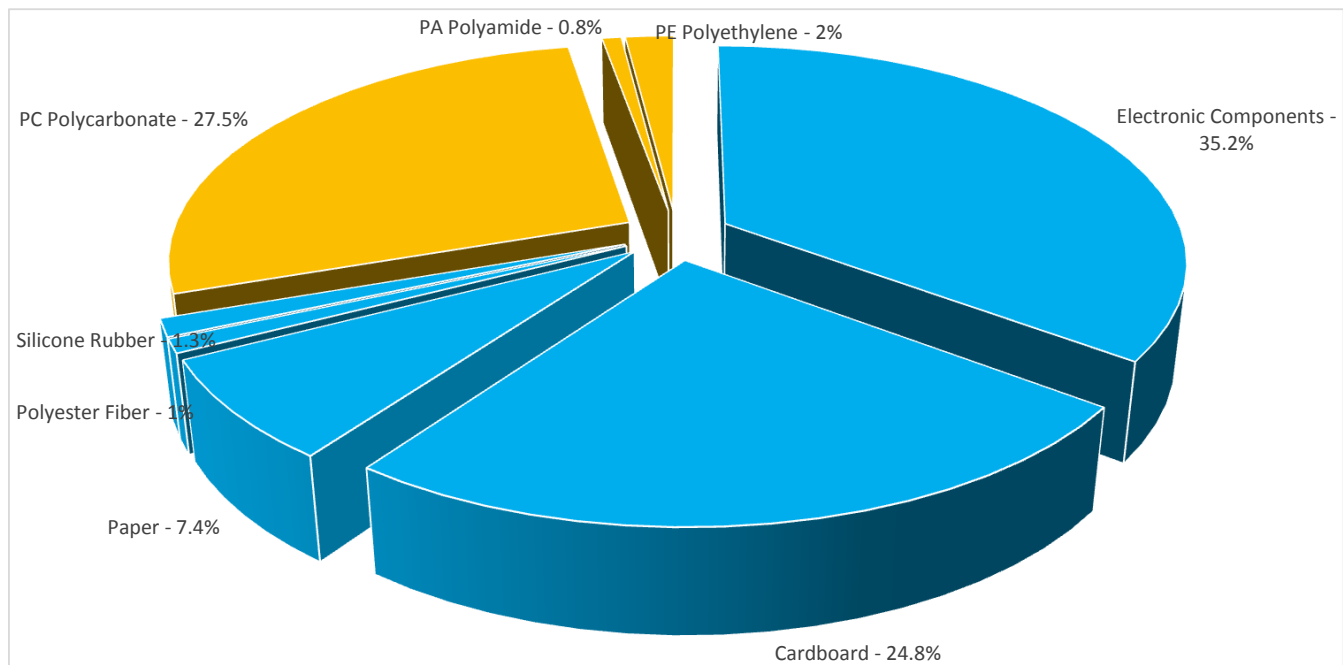
⬛ General information

Representative product	PM2220 POWER METER, RJ45 LVCT -METSEPM2220R
Description of the product	The main function of the METSEPM2220R Digital panel meters is for measurement of either VAF PF parameter or energy parameter. It has large LCD display, intuitive navigation with self-guided 4 buttons.
Functional unit	Measure and display energy related parameters for 10 years

♻ Constituent materials

Reference product mass	343.97 g	including the product, its packaging and additional elements and accessories

PA Polyamide - 0.8%
PE Polyethylene - 2%
PC Polycarbonate - 27.5%
Electronic Components - 35.2%
Silicone Rubber - 1.3%
Polyester Fiber - 1%
Paper - 7.4%
Cardboard - 24.8%

⬛ Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

🌱 Additional environmental information

| The PM2220 POWER METER, RJ45 LVCT presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 118.3 g, consisting of cardboard (71%), PE film (6%), Paper (22%), Polyester fibre (1%)
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains Elecetronic card(121.05g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **2%** Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

🌿 Environmental impacts

Reference life time	10 years
Product category	Active products
Installation elements	No special components needed
Use scenario	Consumed power is 2 W 100 % of the time in Active mode, W 0 % of the time in Standby mode, W 0 % of the time in Sleep mode and W 0 % of the time in Off mode.
Geographical representativeness	Global
Technological representativeness	The main function of the METSEPM2220R Digital panel meters is for measurement of either VAF PF parameter or energy parameter. It has large LCD display, intuitive navigation with self-guided 4 buttons.

Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: SEPM, Bangalore-India.	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		PM2220 POWER METER, RJ45 LVCT - METSEPM2220R					
Impact indicators	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**
Contribution to mineral resources depletion	kg Sb eq	1,91E-03	1,91E-03	0*	0*	7,46E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	4,24E-01	6,56E-02	2,03E-04	0*	3,58E-01	8,15E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	4,43E-02	2,24E-02	4,67E-05	2,43E-04	2,16E-02	2,87E-05
Contribution to global warming	kg CO_2 eq	1,41E+02	5,48E+01	4,44E-02	1,48E-01	8,58E+01	7,10E-02
Contribution to ozone layer depletion	kg CFC11 eq	7,54E-06	1,95E-06	0*	0*	5,59E-06	2,93E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	2,63E-02	6,60E-03	1,45E-05	3,02E-05	1,97E-02	7,84E-06
Resources use	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**
Net use of freshwater	m3	3,12E+02	5,32E-01	0*	0*	3,11E+02	0*
Total Primary Energy	MJ	2,56E+03	8,42E+02	6,28E-01	0*	1,71E+03	3,79E-01

100%
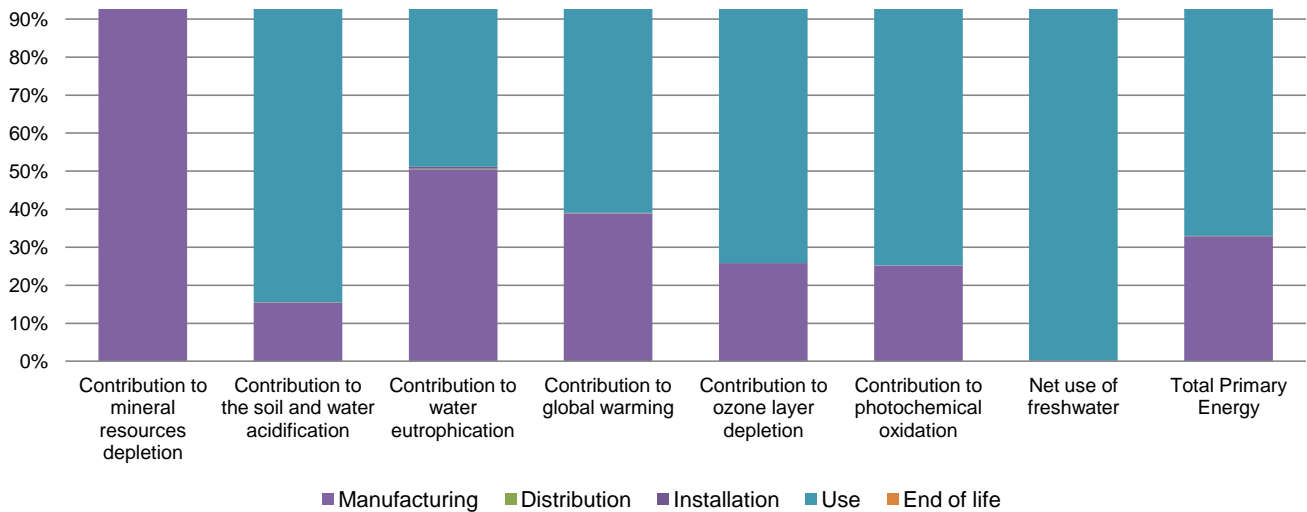
Optional indicators		PM2220 POWER METER, RJ45 LVCT - METSEPM2220R					
Impact indicators	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**
Contribution to fossil resources depletion	MJ	1,80E+03	8,29E+02	6,24E-01	0*	9,74E+02	3,56E-01
Contribution to air pollution	m³	9,12E+03	5,42E+03	1,89E+00	0*	3,69E+03	2,79E+00
Contribution to water pollution	m³	6,96E+03	3,40E+03	7,30E+00	6,03E+00	3,54E+03	4,10E+00
Resources use	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**
Use of secondary material	kg	1,17E-03	1,17E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,24E+02	6,07E+00	0*	0*	2,18E+02	0*
Total use of non-renewable primary energy resources	MJ	2,33E+03	8,36E+02	6,27E-01	0*	1,50E+03	3,79E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,22E+02	3,87E+00	0*	0*	2,18E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2,21E+00	2,21E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,33E+03	8,31E+02	6,27E-01	0*	1,50E+03	3,79E-01
Use of non renewable primary energy resources used as raw material	MJ	4,98E+00	4,98E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Waste categories	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**
Hazardous waste disposed	kg	6,02E+00	5,50E+00	0*	0*	4,48E-02	4,74E-01
Non hazardous waste disposed	kg	3,33E+02	1,28E+01	0*	8,98E-02	3,20E+02	0*
Radioactive waste disposed	kg	2,15E-01	1,56E-03	0*	0*	2,14E-01	0*
Other environmental information	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**
Materials for recycling	kg	2,06E-02	1,63E-02	0*	0*	0*	4,24E-03
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,61E-02	7,06E-04	0*	0*	0*	1,54E-02
Exported Energy	MJ	1,46E-02	0*	0*	1,46E-02	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.5, database version 2016-11.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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 N°	SCHN-00216-V01.01-EN	*Drafting rules*	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH08	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	05/2017	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010
Internal   External   X
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)   *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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