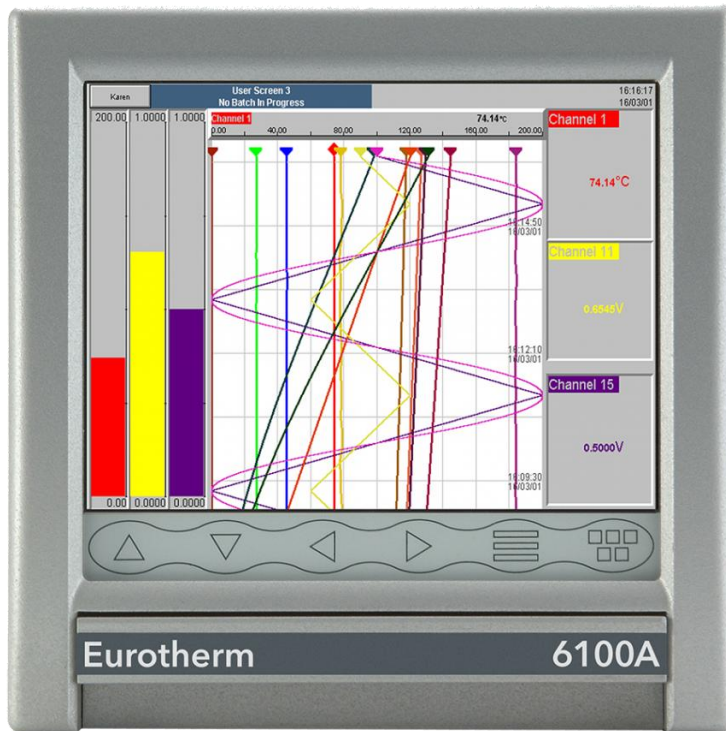


Product Environmental Profile

6100A (Paperless Graphic Recorder)



Life Is 

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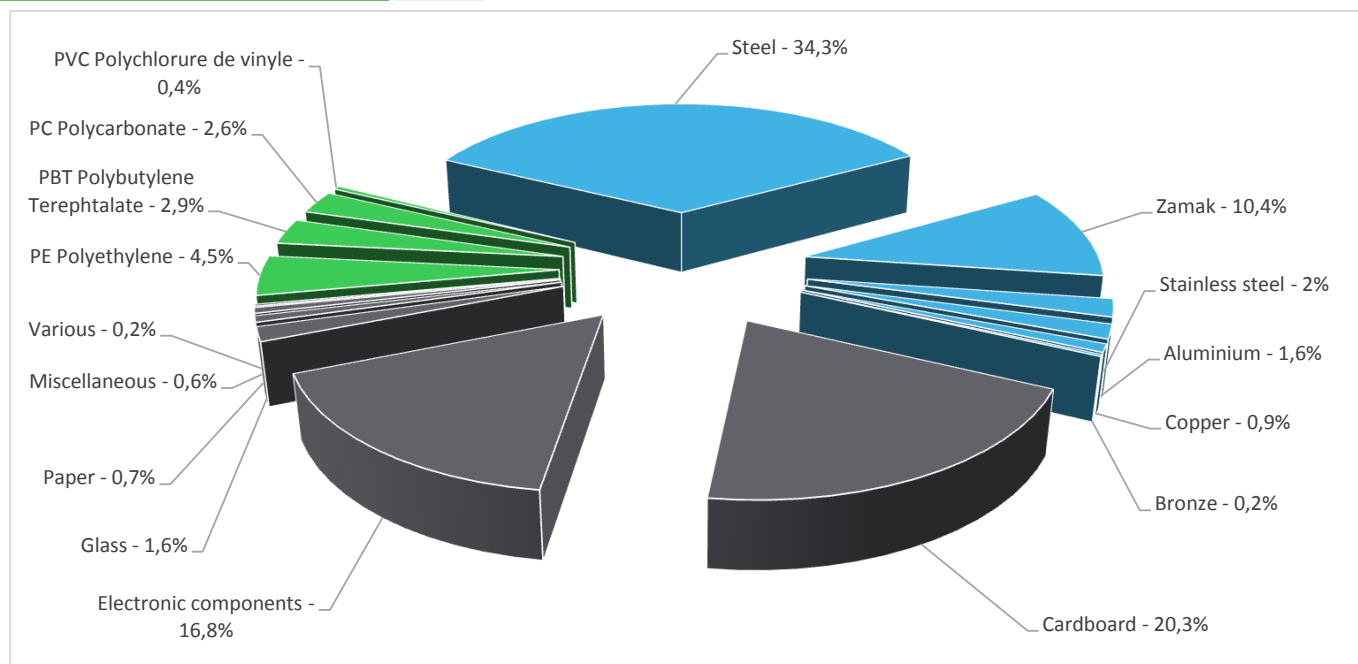
General information

Representative product	6100A (Paperless Graphic Recorder) - 6100A
Description of the product	A high accuracy and configurable graphical recorder with 5.5" ¼ VGA touchscreen display to enable operators to clearly view process data in varying formats. Data is stored in a tamper-resistant binary format that can be used for secure, long term records.
Functional unit	Display and secure recording of up to 18 input channels with a sample rate of 125ms, for a period of 10 years within industrial applications. Configurable software controls up to 12 relays outputs, 6 groups, timers and 4 alarms per channel. Unique user names with configurable access permissions and passwords provide security of data.



Constituent materials

Reference product mass 4325 g including the product, its packaging and additional elements and accessories



Plastics	10,4%
Metals	49,4%
Others	40,2%



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 6100A (Paperless Graphic Recorder) presents the following relevant environmental aspects

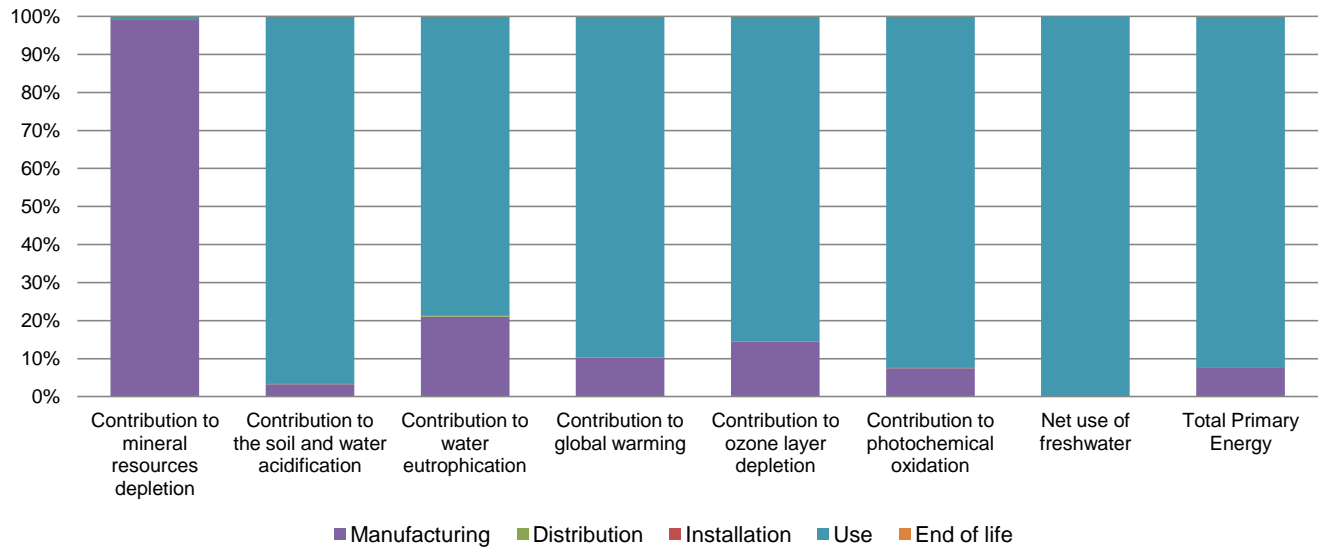
Design	High levels of serviceability with a long product life. Allows optimisation of the end application through the display and control of input data.
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 1081.4 g, consisting of cardboard / paper (81.2%), PE film (3.4%), PE foam (13.9%), polycarbonate (1.5%) Packaging recycled materials is 57% of total packaging mass.
Installation	The 6100A controller does not require any special installation materials or operations.
Use	1 battery of 3.2g has to be changed every 3 years
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 Electronic boards (642g), plastic parts with brominated FR (157g) 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://www.eurotherm.co.uk/downloads/certificates/green-premium/6100A Recyclability potential: 60% Based on "ECO'DEEEE 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	Other equipments - Active product			
Installation elements	No significant amount of material or energy needed to install the product. Only transport and disposal of packaging materials accounted for during installation.			
Use scenario	The product is in active mode 100% of the time with a power use of 60W for 10 years. There are no low power or standby modes.			
Geographical representativeness	Product is used mainly in Europe, and to a lesser extent in Asia, Africa, North America, South America and Australia.			
Technological representativeness	A high accuracy and configurable graphical recorder with 5.5" ¼ VGA touchscreen display to enable operators to clearly view process data in varying formats. Data is stored in a tamper-resistant binary format that can be used for secure, long term records.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Poland	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:

Compulsory indicators		6100A (Paperless Graphic Recorder) - 6100A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2,41E-02	2,39E-02	0*	0*	2,24E-04	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1,11E+01	3,66E-01	9,36E-03	0*	1,07E+01	1,29E-03
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	8,25E-01	1,73E-01	2,15E-03	0*	6,49E-01	5,65E-04
Contribution to global warming	kg CO ₂ eq	2,88E+03	2,97E+02	2,08E+00	0*	2,58E+03	1,44E+00
Contribution to ozone layer depletion	kg CFC11 eq	1,96E-04	2,85E-05	0*	0*	1,68E-04	5,09E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	6,39E-01	4,79E-02	6,65E-04	0*	5,90E-01	1,20E-04

Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	9,34E+03	4,26E+00	0*	0*	9,34E+03	0*
Total Primary Energy	MJ	5,58E+04	4,29E+03	2,95E+01	0*	5,14E+04	5,86E+00



Optional indicators	6100A (Paperless Graphic Recorder) - 6100A						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3,36E+04	4,31E+03	2,93E+01	0*	2,92E+04	5,43E+00
Contribution to air pollution	m³	1,40E+05	2,92E+04	8,54E+01	0*	1,11E+05	4,25E+01
Contribution to water pollution	m³	1,26E+05	1,91E+04	3,43E+02	0*	1,06E+05	8,04E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,38E+00	1,38E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	6,65E+03	1,06E+02	0*	0*	6,54E+03	0*
Total use of non-renewable primary energy resources	MJ	4,91E+04	4,18E+03	2,94E+01	0*	4,49E+04	5,85E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6,64E+03	1,02E+02	0*	0*	6,54E+03	0*
Use of renewable primary energy resources used as raw material	MJ	4,01E+00	4,01E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4,91E+04	4,16E+03	2,94E+01	0*	4,49E+04	5,85E+00
Use of non renewable primary energy resources used as raw material	MJ	2,45E+01	2,45E+01	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	2,73E+02	2,66E+02	0*	1,53E-01	1,34E+00	5,40E+00
Non hazardous waste disposed	kg	9,69E+03	9,08E+01	0*	0*	9,60E+03	0*
Radioactive waste disposed	kg	6,43E+00	2,03E-02	0*	0*	6,41E+00	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3,31E+00	4,01E-01	0*	9,28E-01	0*	1,98E+00
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2,82E-01	7,58E-03	0*	7,94E-04	0*	2,74E-01
Exported Energy	MJ	0,00E+00	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 EIME v5.6.0.1, database version 2016-11 in compliance with ISO14044.

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 number	ENVPEP1707010_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	09/2017		
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

Eurotherm

<https://www.eurotherm.co.uk/services>

+44 1903 268500

Faraday Close

Worthing

BN13 3PL

United Kingdom

www.eurotherm.co.uk

www.schneider-electric.com

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