MD 31.131

SAUTER Declaration on materials and the environment

Product

EGT311F103

Type	**EGT311F103**
Designation	**Pipe-mounted temperature sensor**
Product range	**Passive temperature measurement on pipes**
Product group of eco-balance	**Controllers and sensors**

Manufacturer

Fr. Sauter AG
Im Surinam 55, CH-4058 Basel

Management system certified according to

	Since	With
ISO 9001:2015	**10 Oct. 2018**	**SQS**
ISO 14001:2015	**10 Oct. 2018**	**SQS**
ISO 45001:2018	**10 Oct. 2018**	**SQS**

Environmentally-compatible product design

Basis	Managementsystem Fr. Sauter AG
Process	Business process • Product innovation • Ecological accounting

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Product description	CE conformity, function, operation, maintenance, servicing	**See PDS 31.131**
Environmental risk	Fire protection according to	**EN 60695-2-11, EN 60695-10-2**
	Fire load	**2.7 MJ**
	Hazardous substances [1] according to	**RoHS 2011/65/EU & 2015/863/EU compliant. Product category 9.**
	Prohibited substances [2] according to	**Regulation (EC) No. 1907/2006 (REACH) compliant**
	Parts containing halogen (causing corrosive smoke)	**None**
	Liquids polluting the aquatic environment	**none**
	Explosive substances	**None**

Materials

Total weight of product	**149,3 g**	Material Safety Data Sheet (MSDS)	EU waste code [3]
Plastic			
PA	**1,7 g**	Not required	20 01 39
PC	**73,6 g**	Not required	20 01 39
PP	**1,25 g**	Not required	20 01 39
PE	**5,4 g**	Not required	20 01 39
PET	**0,2 g**	Not required	20 01 39
TPE	**0,08 g**	Not required	20 01 39
PVC	**0,16 g**	Not required	20 01 39
Metal			
Stainless steel	**25,0 g**	Not required	20 01 40
steel various alloys,	**2,8 g**	Not required	20 01 40
copper	**0,22 g**	Not required	20 01 40
brass	**0,60 g**	Not required	20 01 40
Special components			
Printed circuit board,	**8,1 g**	Not required	16 02 16
adhesives	**3,0 g**	Not required	20 01 28
Packaging [4]			
Corrugated board PAP 20	**19 g**	Not required	20 01 01
Paper PAP 22	**8,0 g**	Not required	20 01 01
Adhesive label PAP01	**0,1 g**	Not required	20 01 39

[1] Only applies to electrical devices
[2] SVHC substances >0.1%w/w: see **Hazardous ingredients**
[3] Directive 2008/98/EC, directive (EU) 2018/851
[4] Directive 94/62/EC, 2004/12/EC, 2005/20/EC, 2018/852/EC

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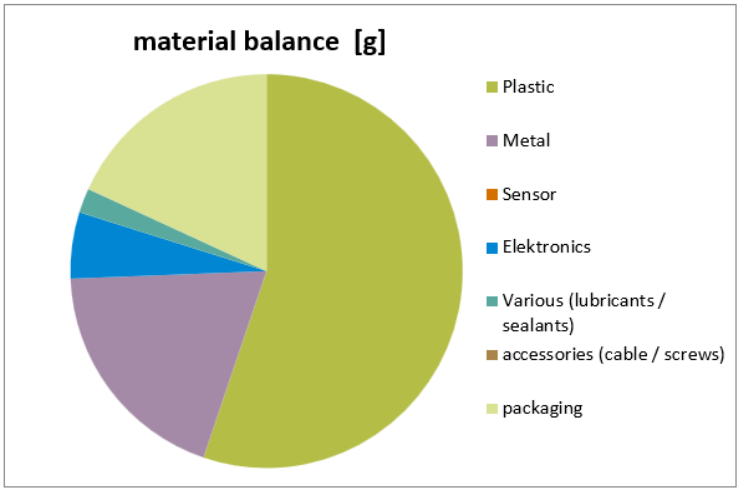
Hazardous ingredients

SVHC ingredient		Name of the ingredient	Effective concentration per article, %w/w
CAS number	EN number		
7439-92-1	231-100-4	Plomb / Lead	>1 - <10

SCIP number will be communicated upon justified request.
Link to ECHA candidate list

Materials balance



Material balance	g
Plastic	82,4
Metal	28,6
Sensor	-
Elektronics	8,1
Various (lubricants / sealants)	3,0
accessories (cable / screws)	-
packaging	27,1
	149,3

Energy requirement in the utilisation phase

Power requirement component

Minimum power consumption	0,025	W
Average power consumption	-	W
Typical energy consumption per year	2,2	W

The energy demand was evaluated for a typical application scenario. The European electricity mix from ecoinvent 2.2 was used to evaluate electricity consumption during the use phase.

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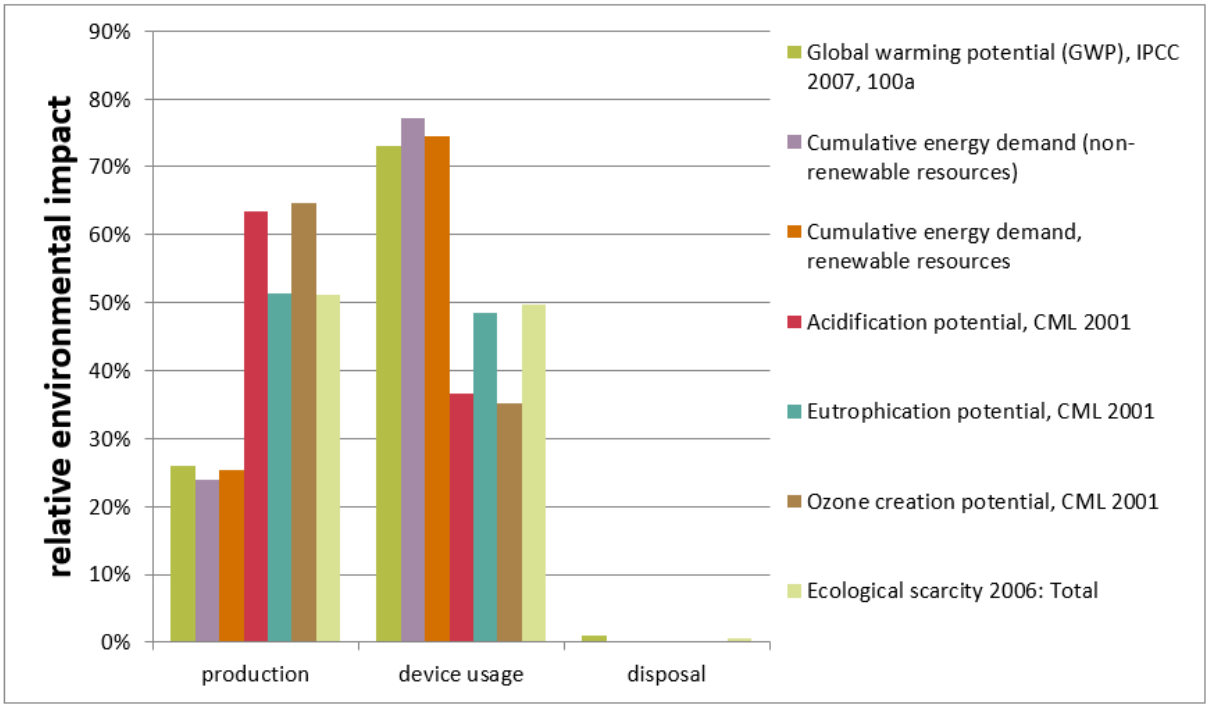
Calculation of the environmental impact

Evaluation over the entire life stage of 8 years in a typical utilisation scenario. The results shown are based on a method of ecological scarcity that combines various environmental effects into an “environmental impact points” key figure. The method is based on Switzerland’s environmental targets and evaluates the individual effects depending on the “Distance to Target”.

Indikator	unit	production	device usage	disposal	Total
Global warming potential (GWP), IPCC 2007, 100a	kg CO2 eq.	4,7	13,1	0,2	18,0
Cumulative energy demand (non-renewable resources)	MJ eq.	84	270	0,2	350
Cumulative energy demand, renewable resources	MJ eq.	6,9	20	0,00	27
Acidification potential, CML 2001	kg SO2 eq.	9,38E-02	5,42E-02	5,86E-05	1,48E-01
Eutrophication potential, CML 2001	kg PO4-- eq.	4,56E-02	4,31E-02	5,61E-05	8,88E-02
Ozone creation potential, CML 2001	kg C2H4 eq.	4,01E-03	2,18E-03	2,06E-06	6,19E-03
Ecological scarcity 2006: Total	UBP	13.800	13.400	180	27.000



The relationship of the contributions made by the utilisation in comparison to those made by the reduction and disposal depends on the intensity of the utilisation (utilisation scenario).

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Disposal	**Product:** The device must be disposed of as waste from electrical and electronic equipment (electrical/electronic scrap) and must not be disposed of as household waste. This applies in particular to the assembled PCB. Special treatment for special components may be compulsory by law or may make ecological sense. **WEEE** (Waste Electrical and Electronic Equipment) The local and currently valid laws (WEEE2012/19/EU) must be observed. **Packaging:** Recyclable. Any packaging disposal fees are the responsibility of the importer. **Special notes on hazards:** none**.**
[3] Remarks	-
How the environment benefits	With these products, we make a significant contribution to energy savings in buildings and to reducing climate change. Its resource-saving compact design and easy single-sort disassembly result in optimal sustainability with a life expectancy of 8 years. The eco-balance becomes even more optimal, with the use of energy from renewable sources.
Extent of applicability	This declaration is an environmental declaration based on ISO 14025 and describes the environmental impact of the product over its entire life stage. The declaration is made in a compact form without an external check or registration. The data gathered with existing data inventories for production processes has been evaluated from the ecoinvent 2.2 European database. For the determination of the energy requirement during the utilisation phase of the product, standard HVAC applications and average climatic conditions in Switzerland were assumed, based on the ecological accounting for the corresponding product group.

Disclaimer: This declaration is for information purposes only.

Deviations from the information it contains can occur without notification. Fr. Sauter AG explicitly rules out any liability for any consequences that may result due to the above information.

Your local SAUTER representative will provide further information on environmental aspects, and specifically on disposal.

References

Ecoinvent 2010 ecoinvent data v2.2, Swiss Centre for Life Cycle Inventories, Dübendorf

FOEN 2008 eco-balances: method of ecological scarcity – eco-factors 2006, FOEN

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