

# **SAUTER Declaration on materials and the environment**

## **Product**



Type EGH110F041
EGH111F031
EGH112F031

Relative humidity and temperature

Product range Sensors and transducers

Product group of eco-balance Controllers and sensors

Manufacturer	Fr. Sauter AG	
	Im Surinam 55, CH-4016 Basel	
Product description	CE conformity	
	Function, operation, maintenance, service	PDS 34.110
Environmental risk	Fire protection according to	EN 60695-2-11, EN 60695-10-2
	Fire load <sup>1</sup>	3.7 MJ
	Hazardous substances <sup>2</sup>	Conforming to RoHS 2011/65/EU
	Banned substances (see link below)	Conforming to REACH 1907/2006/EC
	Parts containing halogen (causing corrosive smoke)	Printed circuit boards
	Liquids polluting the aquatic environment	None
	Explosive substances	None
Packaging <sup>3</sup>	Cardboard	116.5 g

<sup>&</sup>lt;sup>1</sup> See **Remarks** on last page <sup>2</sup> Only applies to electrical devices <sup>3</sup> Directive 94/62/EC and follow-on document, ruling 97/129/EC

## **Materials**

137.5 g	Material Safety Data Sheet (MSDS)	EU waste code <sup>5</sup>		
93.4 g Yes		20 01 39		
18.5 g	Yes	20 01 39		
4.3 g	Not required	20 01 40		
18.3 g	Not required	20 01 36		
None				
Special components				
3 g	Not required	20 01 36		
	93.4 g 18.5 g 4.3 g	93.4 g Yes 18.5 g Yes 4.3 g Not required  18.3 g Not required		

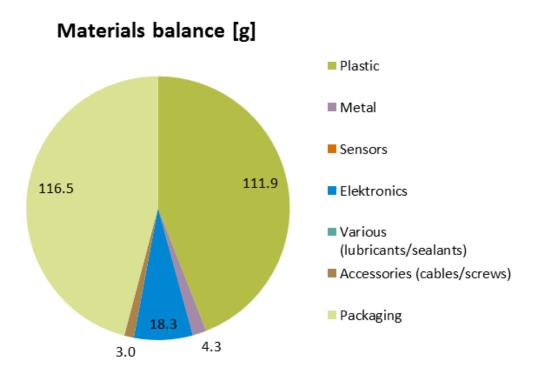


#### Note

The following materials balance and the calculation of the environmental impact relate to type EGH110F041.

See Remarks on last page
 Directive 75/442/EEC and follow-on document, ruling 2001/118/EC

#### **Materials balance**



## **Energy requirement in the utilisation phase**

Power requirement for component

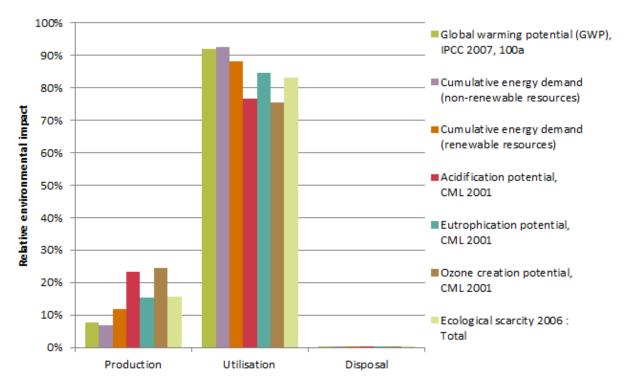
•	Power consumption EGH110F041	1.0 W
•	Typical energy consumption per year	8.5 kWh/a
•	Power consumption EGH111F031, 112F031	0.4 W
•	Typical energy consumption per year	3.4 kWh/a

The energy requirement evaluation was performed for a typical utilisation scenario. The European electricity mix from ecoinvent 2.2 was used to evaluate the power consumption in the utilisation phase.

## Calculation of the environmental impact

Evaluation over the entire life stage of 8 years in a typical utilisation scenario. The results additionally 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".

Indicator	Unit	Production	Utilisation	Disposal	Total
Global warming potential (GWP),					
IPCC 2007, 100a	kg CO2 eq.	3.2	37.6	0.0	40.8
Cumulative energy demand (non-renewable resources)	MJ eq.	56	760	0.1	820
Cumulative energy demand (renewable resources)	MJ eq.	7.8	58	0.00	66
Acidification potential, CML 2001	kg SO2 eq.	4.73E-02	1.55E-01	2.39E-05	2.02E-01
Eutrophication potential, CML 2001	kg PO4 eq.	2.25E-02	1.23E-01	1.80E-05	1.46E-01
Ozone creation potential, CML 2001	kg C2H4 eq.	2.03E-03	6.23E-03	8.60E-07	8.26E-03
Ecological scarcity 2006 : Total	UBP	7'200	38'300	50	46'000



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

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 PCB assembly.  It is possible that special treatment for special components is compulsory by law or makes ecological sense.  Packaging: Recyclable The local and currently valid laws (WEEE2012/19/EU) must be observed.  Special information:		
Remarks	None  (1) Depending on the fire load for the type:		
Remarks	EGH110F041, EGH111F031, 3.7 MJ EGH112F031		
	(2) Depending on the weight of the type:		
	EGH110F041, EGH111F031, 137.5 MJ EGH112F031		
How the environment benefits	With these products we make a significant contribution to energy savings in buildings and to reducing global warming.		
	In the Green Building area, our products ensure that customer requirements are fulfilled optimally and that there is cost efficiency over the entire building life-cycle.		
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 have been evaluated with existing data inventories for production processes 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 only for information purposes.

Deviations from the information it contains can occur without being reported. 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 Center for Life Cycle Inventories, Dübendorf FOEN 2008 eco-balances: method of ecological scarcity – eco-factors 2006, FOEN