

# SAUTER Declaration on materials and the environment

## Product



EGT386F101, EGT486F101, EGT686F101

Type	EGT386F101 EGT388F101, EGT388F102 EGT486F101 EGT686F101 EGT688F101
Designation	Room-temperature sensor, recessed
Product range	Sensors and transducers Temperature (sensors)
Product group of eco-balance	Controllers and sensors



EGT388F101, EGT388F102, EGT688F101

### Manufacturer

Fr. Sauter AG  
Im Surinam 55, CH-4016 Basel

### Product description

CE conformity	
Function, operation, maintenance, service	PDS 31.250

### Environmental risk

Fire protection according to	EN 60695-2-11, EN 60695-10-2
Fire load <sup>1</sup>	1.0...1.8 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 circuits boards
Liquids polluting the aquatic environment	None
Explosive substances	None

### Packaging <sup>3</sup>

Folded cardboard	
EGT386,486,686F101	13.0 g
EGT388F10.,688F101	37.0 g

<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

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Total weight of product <sup>4</sup>	53,0 / 84,0 g	Material Safety Data Sheet (MSDS)	EU waste code <sup>5</sup>
<b>Plastic</b>			
PC	27.2 g	Yes	20 01 39
ABS (only EGT388F101/F102, 688F101)	9.8 g	Yes	20 01 36
<b>Metal</b>			
Steel of different alloys	17.0...20.0 g	Not required	20 01 40
<b>Printed circuit board</b>			
PCB assembly, lead-free solder Only EGT388F101/F102, 688F101	18.9 g	Not required	20 01 36
<b>Various</b>			
None			
<b>Special components</b>			
Terminal strip, 2 poles, PA 66 (1 piece) Only EGT386, 486, 686F101	4.5 g	Not required	20 01 36
Terminal strip, 5 poles PA 66 (2 pieces) Only EGT388F101/F102, 688F101	11.0 g	Not required	20 01 36
Adhesive Only EGT386F101/F102, 686F101	1.0 g	Yes	20 01 99



### Note

The following materials balance and the calculation of the environmental impact relate to following types:  
EGT386F101, EGT486F101, EGT686F101 / EGT388F101, EGT388F102, EGT688F101.

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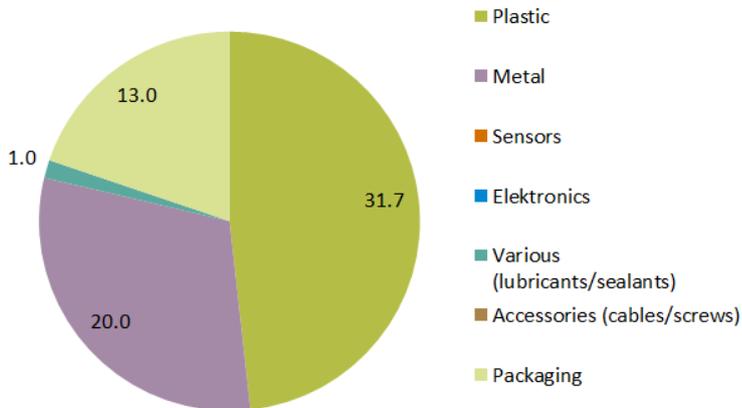
<sup>4</sup> See **Remarks** on last page

<sup>5</sup> Directive 75/442/EEC and follow-on document, ruling 2001/118/EC

## Materials balance

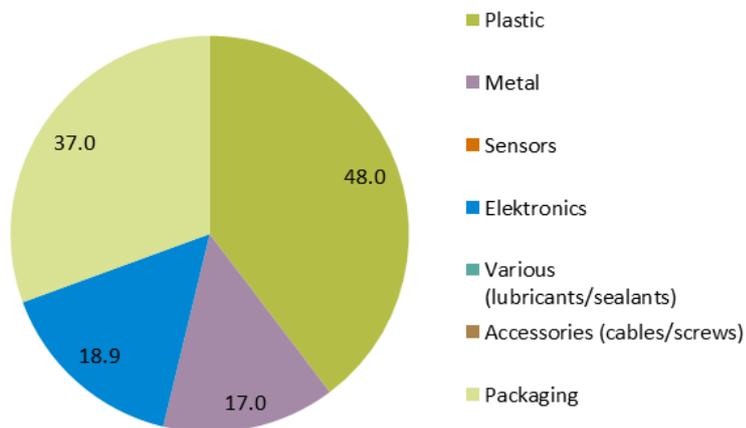
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Materials balance [g]



EGT386F101, EGT486F101, EGT686F101

Materials balance [g]



EGT388F101, EGT388F102, EGT688F101

## Energy requirement in the utilisation phase

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Power requirement for component :

- No power consumption

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

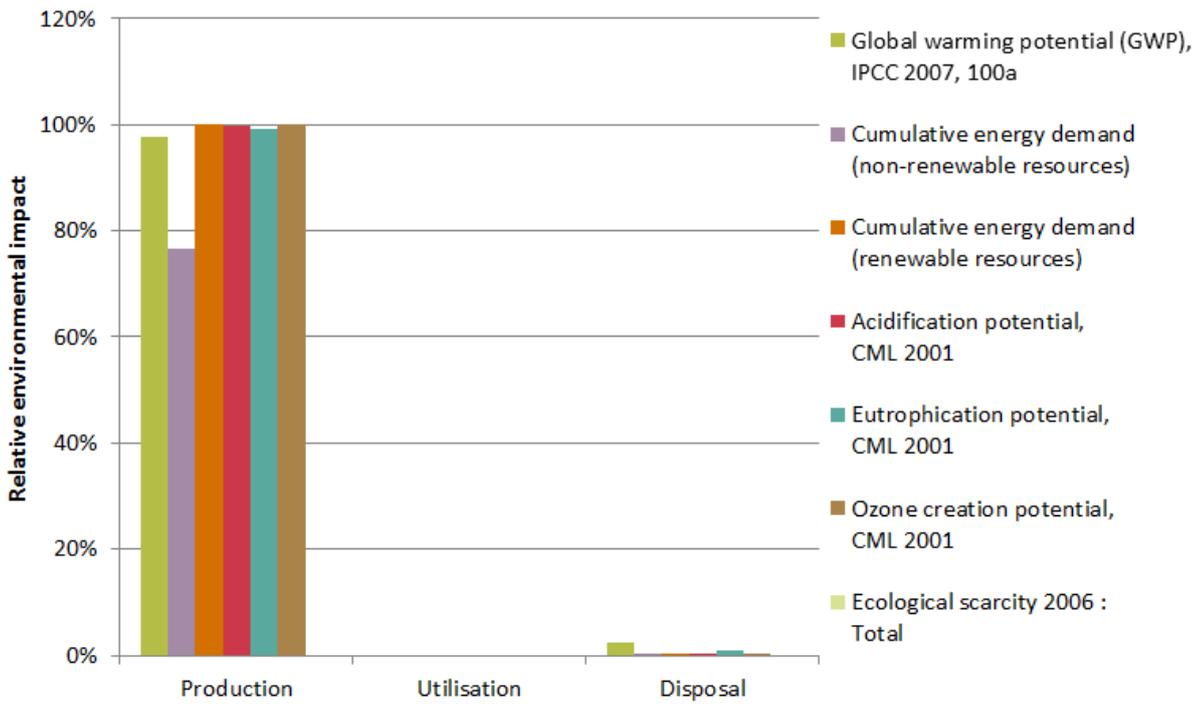
Evaluation over the entire life stage of 8 years in a typical utilisation scenario. The results additionally shown are based on a method of ecological scarcity that combines various environmental effects into an “environmental impact points” key figure. The method is based on Switzerland’s environmental 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.	0.4	-	0.0	0.4
Cumulative energy demand (non-renewable resources)	MJ eq.	8	-	0.0	10
Cumulative energy demand (renewable resources)	MJ eq.	0.9	-	0.00	1
Acidification potential, CML 2001	kg SO2 eq.	1.38E-03	0.00E+00	2.43E-06	1.38E-03
Eutrophication potential, CML 2001	kg PO4-- eq.	3.69E-04	0.00E+00	2.85E-06	3.72E-04
Ozone creation potential, CML 2001	kg C2H4 eq.	9.34E-05	0.00E+00	7.08E-08	9.35E-05
Ecological scarcity 2006 : Total	UBP	400	-	10	-

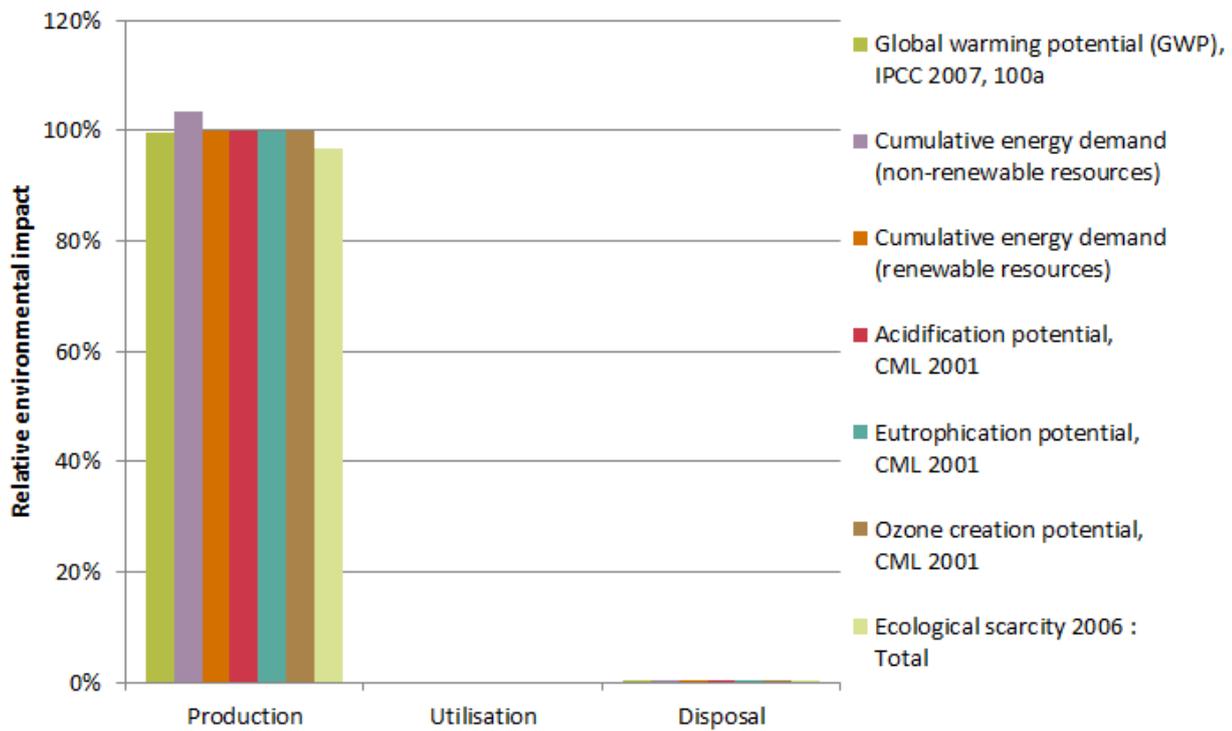
EGT386F101, EGT486F101, EGT686F101

Indicator	Unit	Production	Utilisation	Disposal	Total
Global warming potential (GWP), IPCC 2007, 100a	kg CO2 eq.	4.6	-	0.0	4.7
Cumulative energy demand (non-renewable resources)	MJ eq.	83	-	0.1	80
Cumulative energy demand (renewable resources)	MJ eq.	7.4	-	0.00	7
Acidification potential, CML 2001	kg SO2 eq.	1.02E-01	0.00E+00	1.87E-05	1.02E-01
Eutrophication potential, CML 2001	kg PO4-- eq.	5.04E-02	0.00E+00	1.08E-05	5.04E-02
Ozone creation potential, CML 2001	kg C2H4 eq.	4.33E-03	0.00E+00	7.10E-07	4.33E-03
Ecological scarcity 2006 : Total	UBP	14'500	-	40	15'000

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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:**

None

**Remarks****<sup>(1)</sup> Depending on the fire load for the type:**

EGT386F101, 486F101, 686F101                      1.0 MJ

EGT388F101/F102, 688F101                      1.8 MJ

**<sup>(2)</sup> Depending on the weight of the type:**

EGT386F101, 486F101, 686F101                      53.0 g

EGT388F101/F102, 688F101                      84.0 g

**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