

Wattstopper Inc. 2234 Rutherford Drive Carlsbad, CA 92008

1.877.BY.LEGRAND (295.3472) www.legrand.us

Product Environmental Profile

Wattstopper® - Low Voltage Dual Technology Occupancy Sensor



■ COMPANY OVERVIEW

• Designed to Be Better - Our Commitment to Sustainability

At Legrand®, our sustainability commitment translates into greater benefits and tangible value for our customers, business partners, employees and the broader community.

• Better Performance

We provide building solutions to meet many building performance goals, from sustainability and energy efficiency to productivity and occupant well being. The right choice in network and electrical infrastructure can play a key role in many facets of building performance. Our products help ensure electrical safety. They offer choice and flexibility in space design. They are designed to reduce installation time and material waste on site. Because we know buildings consume a great deal of energy, we offer a range of products and solutions that reduce energy consumption from lighting to plug load to data centers.

Better Solutions

We offer a wide range of innovative solutions for the building, while constantly evolving our design and development processes to improve the environmental profile of our products. Through active monitoring and research, we serve as an expert resource for market trends and building and product performance standards to keep our customers at the top of their game.

• Better Operations

We focus on operational excellence, because we believe optimizing the way we manage energy, water and waste is not only good for the environment, it's good for business. As part of the Department of Energy's Better Building, Better Plants Challenge (BBBP), Legrand has reduced its energy intensity by over 30% across 14 sites in the United States in just three years. Integrating sustainability into the way we run our operations makes us more competitive – and a better business partner.



For information on Legrand PEP's and our sustainability initiatives, scan the QR code to be brought to our High Performance Buildings page.



■ LEGRAND'S ENVIRONMENTAL COMMITMENTS I

• Incorporate environmental management into our industrial sites

Of all Legrand sites worldwide (belonging to Legrand for more than five years), over 85% are ISO 14001 certified.

• Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

• Involve the environment in product design

Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



■ REFERENCE PRODUCT ■

Function	Occupancy sensing using both passive infrared and ultrasonic technology for use in an indoor environment. Coverage area is over 1000 sq ft; modeled for a period of continuous use over 10 years.
Reference Product	
	Part Number: DT-300
	Dual Techology Low Voltage Occupancy Sensor

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



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■ PRODUCTS CONCERNED

The environmental data is representative of the following products:

CI-300-x, CI-305-x, DT-300-x, DT-305-x, UT-300-x, and UT-305-x

Where "x" is any combination of numbers or letters that specify:

- BAA/TAA Complaince (e.g., DT-300-U)
- Different coverage areas



■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EC.

Total weight of Reference Product	
Total Weight of Reference Froudet	
(with unit packaging)	224 g (packaging 89.5g)
(With anic packaging)	224 g (packaging 07.0g)

Plastics as % of weight		Metals as % of weight		Other as % of weight			
Acrylonitrile Butadiene Styrene	30.1%	Steel	1.6%	Printed Circuit Board	5.9%		
Polyamide	8.1%	Copper Alloys	1.5%	Various Electronic Components	8.3%		
Polyethylene	0.3%	Other Metals	4.7%				
Polyethylene Terephthalate	0.2%			Packaging as % of weight			
Other Plastics	0.4%			Paper	28.0%		
				Polyethylene	10.9%		
Total plastics	39.1%	Total metals	7.8%	Total other and packaging	53.1%		

Estimated recycled material content: 9% of weight.



MANUFACTURING

The Reference Product comes from sites that have received ISO 14001 certification.



■ DISTRIBUTION

Products are distributed from logistics centers located to optimize transport efficiency using EPA SmartWay® certified carriers to reduce greenhouse gases emissions. Information on the distance of distribution is not available, so the PCR hypothesis for "Intercontinental transport," 2175 miles (3500 km) by heavy truck, was used. This represents transportation of the Reference Product from our warehouse to the local point of distribution in the North American market.



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■ INSTALLATION I

No required components, products, parts nor processes for installation. No electricity is required for installing the Reference Product.



USE I

Servicing and maintenance:

Under normal conditions of use, this type of product requires no servicing or maintenance.

Consumable:

No consumables are necessary to use this type of product.



■ END OF LIFE ■

• Hazardous waste* contained in the product:

No hazardous waste.

*Hazardous waste as defined by European Commission decision 2000/532/EC.

· Recycling rate:

Calculated using the method described in the IEC/TR 62635 technical report; the recyclability rate of the Reference Product, including packaging, is estimated as 76%. This value is based on data collected from a technological channel using industrial procedures. It does not pre-validate the effective use of this channel for end-of-life electrical and electronic products.

Separated into: (% mass of Reference Product without packaging)

plastic materials (excluding packaging):
metal materials (excluding packaging):
other materials (excluding packaging):
4%



■ ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life. It is representative of products marketed and used in North America.

The following modelling elements were taken into account:

Manufacturing	Packaging taken into account. As required by the PEP ecopassport program, all transport for the manufacturing of the Reference Product, including materials and components, has been taken into account. International transport, as defined by the PCR, was used to take into account transportation from the production site to the final distribution center. The waste generated during manufacturing phase has been taken into account.
Distribution	Transport between the last distribution center and an average delivery to the sales area.
Installation	The end of life of the packaging (lb or g) is taken into account at this phase. Transport of packaging to end of life treatment.
Use	 Under normal conditions of use, this type of product requires no servicing or maintenance. No consumables are necessary to use this type of product. Product category: Other equipment - Category 2, active product. Use scenario: Active mode (0.564W) in continuous operation (100% of the time) for 10 years. This modeling duration does not constitute a minimum durability requirement. Energy model: Electricity (US) - 2009.
End of life	The default end of life scenario modeled maximizes the environmental impact.
Software used	EIME V5 and its database, "CODDE-2015-04," and the indicators defined in the PCR ed 3 in alignment with the EN15804 standard.



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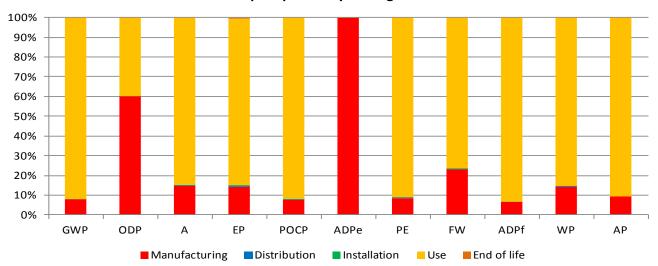


■ ENVIRONMENTAL IMPACTS (continued) I

			Raw mate	rial								
	Total for I	_ifecycle	manufact	uring	Distributi	on	Installatio	n	Use		End of life	
Global warming (GWP)	3.72E+01	kg CO ₂ eq.	2.90E+00	8%	3.90E-02	< 1%	6.24E-02	< 1%	3.42E+01	92%	1.58E-02	< 1%
Ozone depletion (ODP)	1.56E-06	kg CFC-11 eq.	9.36E-07	60%	7.91E-11	< 1%	2.74E-10	< 1%	6.20E-07	40%	3.83E-10	< 1%
Acidification of soil and water (A)	3.86E-02	kg SO ₂ eq.	5.60E-03	14%	1.75E-04	< 1%	5.01E-05	< 1%	3.28E-02	85%	6.08E-05	< 1%
Water eutrophication (EP)	1.03E-02	kg PO ₄ 3- eq.	1.47E-03	14%	4.03E-05	< 1%	6.04E-05	< 1%	8.63E-03	84%	7.19E-05	< 1%
Photochemical ozone creation (POCP)	5.71E-03	kg C ₂ H ₄ eq.	4.30E-04	8%	1.25E-05	< 1%	1.44E-05	< 1%	5.25E-03	92%	4.73E-06	< 1%
Depletion of abiotic resources - elements (ADPe)	2.35E-04	kg Sb eq.	2.35E-04	100%	1.56E-09	< 1%	6.92E-10	< 1%	3.36E-07	< 1%	9.95E-10	< 1%
Total use of primary energy (PE)	5.05E+02	MJ	4.32E+01	9%	5.23E-01	< 1%	1.14E-01	< 1%	4.61E+02	91%	1.69E-01	< 1%
Net use of fresh water (FW)	7.89E-02	m³	1.84E-02	23%	3.49E-06	< 1%	2.18E-05	< 1%	6.05E-02	77%	1.32E-05	< 1%
Depletion of abiotic resources – fossil fuels (ADPf)	5.81E+02	MJ	3.87E+01	7 %	5.48E-01	< 1%	1.53E-01	< 1%	5.41E+02	93%	2.25E-01	< 1%
Water pollution (WP)	1.98E+03	m³	2.86E+02	14%	6.42E+00	< 1%	1.16E+00	< 1%	1.69E+03	85%	1.82E+00	< 1%
Air pollution (AP)	3.21E+03	m³	2.97E+02	9%	1.60E+00	< 1%	2.01E+00	< 1%	2.91E+03	91%	1.81E+00	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of the pep-ecopassport.org website. The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family.





The environmental impact of the Reference Product occurs predominantly during the manufacturing and use phases.



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■ ENVIRONMENTAL IMPACTS (continued)

For products other than the Reference Product, the environmental impacts of each phase of the lifecycle are calculated via the extrapolation rules listed below. The environmental impacts can be determined for a given impact category and lifecycle phase by multipling the corresponding impact value listed above for the DT-300 product by the conversion factor provided below. Factors are generally consistent within a lifecycle phase for each product. Note that special attention was given to the Manufacturing and Use phases since these have the greatest weight on the environmental impacts.

Factor Ratio to calculate factor

- Wattage of product energy use/Wattage of reference product energy use
- В Mass of product without packaging/Mass of reference product without packaging
- С Mass of product packaging/Mass of reference product packaging
- D Total mass of product with packaging/Total mass of reference product with packaging

Part Number	Manufacturing	Distribution	Installation	Use	End of Life
CI-300	В	D	С	Α	В
CI-300-1	В	D	С	Α	В
CI-305	В	D	С	А	В
CI-305-1	В	D	С	Α	В
DT-305	В	D	С	Α	В
UT-300-1	В	D	С	А	В
UT-300-2	В	D	С	А	В
UT-300-3	В	D	С	А	В
UT-305-1	В	D	С	Α	В
UT-305-2	В	D	С	А	В
UT-305-3	В	D	С	Α	В

Registration number: LGRP-00257-V01.01-EN	Drafting rules: "PCR-ed3-EN-2015 04" Supplemented by "PSR-0005-ed2-EN-2016 03 29"
Verifier's accreditation number: VH25	Information and reference documents: www.pep-ecopassport.org
Date of issue: 11-2016	Validity period: 5 years
Independent verification of the declaration and data, in complete large	pliance with ISO 14025:2010
The PCR Review was conducted by a panel of experts chaire	d by Philippe Osset (SOLINNEN).
The elements of the present PEP cannot be compared with e	elements from another program.
Document in compliance with ISO 14025:2010: "Environment environmental declarations"	Ital labels and declarations - Type III

In compliance with ISO 14040:2006: "Environmental management – LCA – Principles and framework" In compliance with ISO 14044:2006: "Environmental management – LCA – Requirements and guidelines" In alignment with EN 15804:2012+A1:2013: "Sustainability of construction works - EPD's - Core rules for the product category of construction products"

