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17 August 2023

## **OJ Declaration on Environment and Materials**

### **MCD5-1999, touch thermostat for underfloor heating**

### **MWD5-1999, wifi thermostat for underfloor heating**

## **Environmental commitment of OJ Electronics A/S**

### **Green vision**

OJ Electronics will continue to develop intelligent solutions, which provide maximum comfort with minimum energy consumption.

### **Green strategy**

For OJ Electronics sustainability is a business approach that aims to achieve the best possible outcome not just for ourselves, but for our stakeholders and the environment too.

### **Impact**

In all our business decisions and processes, we at OJ Electronics seek to strike a responsible balance between economic, human, and environmental considerations.

## **Products concerned**

Reference product is OJ part number MCD5-1999-P3, touch thermostat for underfloor heating, packed in unit box with sensor, pure white, standard for EU.

Customer specific products might be in different design or colour and/or packed with extra lid, extra frames or other accessories.



Data are representative of the following OJ part numbers

MCD5-1999-XXYY    XX representing customer two-letter abbreviations or left blank  
MWD5-1999-XXYY    YY representing a letter for function and a number for colour

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## Constituent materials

The below reported weights are for the reference product. Customer specific thermostats might have different weights of plastic parts due to different designs. The product consists of the following fractions:

Fraction	Material	Weight (g) *	Weight % of total
Frames, front cover, button	Plastic, ABS	16	11%
Bottom plate, inner housing, display window	Plastic, PC	23	16%
Slider, tap	Plastic, POM	1	<1%
Electronics	Sensor, display, PCB, electronic components	104	72%
Battery **)	Lithium battery	0,5	<1%
	Total	144,5	100%

\*) Weights are approximated and may vary slightly

\*\*\*) UN-38 report and safety data sheet available on request

We declare that to the best of our knowledge the products meet the requirements of RoHS3, Restriction of Hazardous Substances Directives 2011/65/EU (RoHS2) with amendments, including Directive 2015/863/EU (RoHS3).

We declare that to the best of our knowledge the products meet the requirements of POP, Regulation (EU) 2019/1021 of the European Parliament and of the Council on persistent organic pollutants with amendments.

To our knowledge nano materials or micro plastic have been intentionally added to the product.

In accordance with REACH, Registration, Authorisation and Restriction of Chemicals, European Union Regulation (EC) 1907/2006 with amendments, we hereby declare that the products include components with a content of Substances of Very High Concern, SVHC, above the limit of 0,1%, referring to the SVHC Candidate List of 14<sup>th</sup> of June 2023.

Component *)	Component weight (g)	SVHC	CAS-no.	Substance concentration (% w/w)	RoHS Exemption
FKFSREIHM0.032768-T3	0,13226	Lead	7439-92-1	4,4	7.a
SM4007PL-TP	0,017953	Lead	7439-92-1	3,2	7.a
CD1408-F1400	No data	Lead	7439-92-1	24	7.a, 7.c-1
RBR3LAM60ATR	No data	Lead	7439-92-1	1,2	7.a
MB6S-TP	No data	Lead	7439-92-1	8,1	7.a
B78148S1335J000	0,38	Lead	7439-92-1	1,1	7.a

\*) Where alternative components can be used, "worst case" is reported.

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## Packaging and accessories

The data shown in this section is representative of the mentioned reference product. Packaging and accessories, such as instruction manuals, may vary with customer specifications and therefore have different weights. Some customer specific products are packed in other multi-piece boxes.

Packaging	Material	Weight, total (g)	Weight pr unit (g)
Instruction manuals	Paper	45	45
Unit box, incl. insert	Cardboard	34	34
50-piece box incl. inserts	Cardboard	740	14,8

50-piece boxes are stacked on pallets and wrapped or strapped:

Pallet: Euro pallet, heat treated according to ISPM 15  
Wrapping foil: Plastic, LLPDE  
Strapping: Plastic, PP

For very small orders, packaging might differ from description.

## Manufacturing

The products are manufactured at OJ Electronics A/S, Sønderborg, Denmark. OJ has an environmental certification according to ISO 14001:2015.

CO<sub>2</sub>-equivalents for manufacturing: 0,054 kg CO<sub>2</sub>-eq/product \*)

\*) Scope 1 and 2, 2022, average of all products produced at OJ.

## Installation

For the installation of the products, only standard tools are needed.

## Use

No consumables are necessary to use these products.

## End of life

Development team at OJ Electronics A/S aims to integrate product end-of-life factors in the design phase.

### Hazardous Waste

The electronics include components with a content of SVHC above the limit of 0,1% as stated under "Constituent materials". When products are used as intended, the substances pose no risk. Caution is advised when disassembling product and disposing of electronic components as waste.

The thermostat contains a lithium battery, which must be disposed of in accordance with local regulations.

OJ is in the process of registering products in the SCIP database in accordance with EU Waste Framework Directive (EU) 2018/85. This declaration will be updated as soon as a SCIP registration number is available.

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### Recycling

Recyclability rate is estimated to 95%.

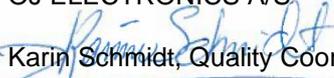
Products can be separated into following waste fractions:

Fraction	% (w/w) of products
Electronics	72%
Plastic (ABS, PC, POM)	27%
Battery (lithium)	<1%

Packaging is 100% reusable or recyclable.

Best regards

OJ ELECTRONICS A/S

  
Karin Schmidt, Quality Coordinator