



# Carbon Footprint of Products

## CFP Declaration

Registration number : JR-AV-24006C

## Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>

CITIZEN WATCH CO.,LTD

CITIZEN L (EM110)



EM1100-84H



EM1104-83D



EM1103-86Y



EM1100-84D

### Functional unit

1 product

### System boundary

final products  intermediate products

Raw material acquisition stage Use & maintenance stage

Production stage Distribution stage End-of-Life stage

### Main specifications of the product

Type: EM1100-84H,EM1104-83D,EM1103-86Y,EM1100-84D

- Watch case material: Stainless steel
- Band material:stainless steel      • Watch glass: Sapphire glass
- Photovoltaic power generation driven for about 6 months when fully charged
- Accuracy: Monthly difference ± 15 seconds
- Waterproof: Waterproof performance for daily life
- Weight: 71.3g

### Company Information

CITIZEN WATCH CO.,LTD

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Environmental Management Division

Registration#	JR-AV-24006C
PCR number	PA-641111-AV-05
PCR name	Watch
Publication date	4/10/2024
Verification date	4/5/2024
Verification method	Product-by-product
Verification#	JV-AV-24006
Expiration date	4/4/2029

### PCR review was conducted by:

Approval date 5/10/2023

PCR review Kanzaki Masayuki

panel chair Japan Environmental Management Association for Industry

### Third party verifier\*

Naitoh Kazuo

Independent verification of data & declaration in accordance with ISO/TS14067

internal

external

\*Auditor's name is stated if system certification has been performed.

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#### 1. Quantification results, and contents of the declaration

CFP quantification unit :

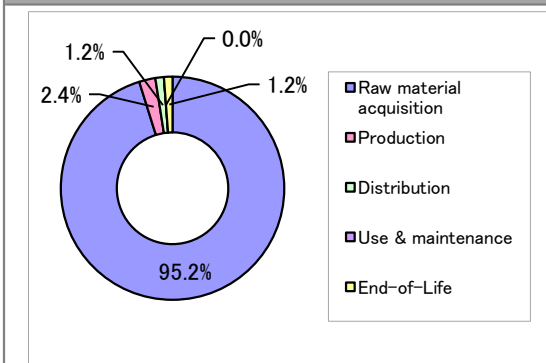
Parameter		Unit	
<b>CFP Quantification results</b>		<b>7.5</b>	<b>kg-CO<sub>2</sub>eq</b>
Breakdown	Raw material acquisition	7.1	kg-CO <sub>2</sub> eq
	Production	0.18	kg-CO <sub>2</sub> eq
	Distribution	0.090	kg-CO <sub>2</sub> eq
	Use & maintenance	0.0	kg-CO <sub>2</sub> eq
	End-of-Life	0.093	kg-CO <sub>2</sub> eq
<b>Value on CFP mark</b>		<b>7.5</b>	<b>kg-CO<sub>2</sub>eq</b>
<b>Unit for the value on CFP mark</b>		<b>1 product</b>	

\*Quantification results may slightly differ from the sum of the breakdown due to rounding of fractions.

#### 3. Supplementary environmental information

The assembly and main parts of this product are produced in an ISO14001 certified factory.

#### 2. Additional information



Calculation results are calculated for series products (EM1100-84H,EM1104-83D,EM1103-86Y,EM1100-84D), but these products have different colors, there is no difference in the calculation results because the basic unit of raw materials and the amount of activity used in the CFP calculation are the same.

#### 4. Interpretation

- Destination: Japan
- At about 95%, the load at the raw material acquisition stage is very high. This is due to the use of stainless steel materials for the main body parts and the heavy load associated with processing them, so it is important to reduce CO2 emissions by using recycled materials and improve processing methods.
- The figures at the distribution stage are low because each wristwatch is light and not bulky, and can be transported in large quantities by truck or other means at once.
- This product is equipped with a solar cell. In consequence, there is no need to replace batteries during the use & maintenance stage. Since the watch band is made of metal, it too does not need to be replaced. This results in a use & maintenance figure of 0%.
- When calculating the CFP, we use in-house data for the quantities of raw materials used. Collecting data for many of the components is, however, difficult. For that reason, the data for raw material generation is based on typical values for our processes. As a result, the data sometimes does not reflect the characteristics of this specific product. Kindly understand that, for the above reasons, these results are estimates.

#### 5. Assumptions of secondary data used

IDEA v2.1.3, program registration basic unit 1.13 was used.

#### 6. Remarks

- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.  
(Reference URL : <https://ecoleaf-label.jp/regulation/>)
- The CFP only addresses the single impact category of climate change and does not assess other potential social, economic and environmental impacts arising from the provision of a product.