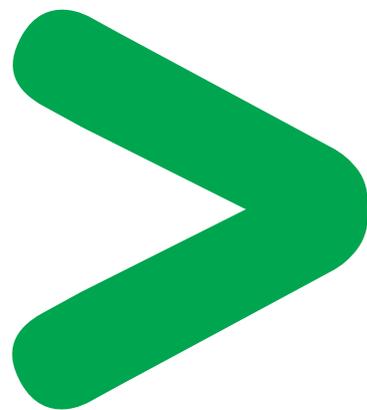


TCSEGDB23F24FA

# Product Environmental Profile

M340 Modbus Plus Gateway



# Product Environmental Profile - PEP

## Product overview

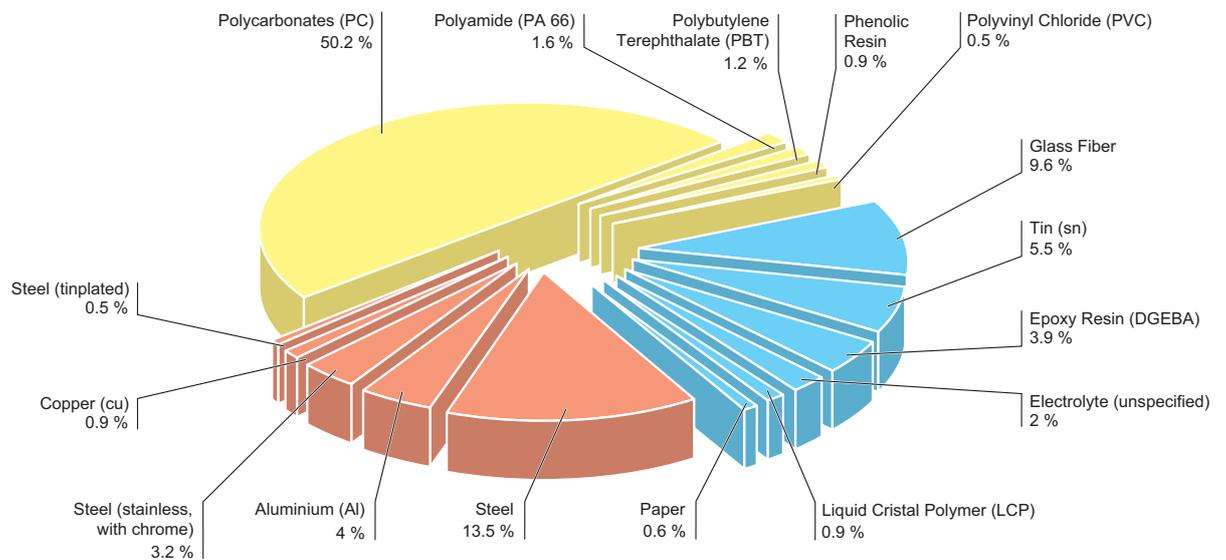
The M340 ModbusPlus Gateway has been designed to bridge between Ethernet network devices and Modbus Plus network devices.

This product has been designed using ECO-Design principles to assure it meets requirements while reducing its environmental impact over its life cycle.

## Constituent materials

This product does not contain batteries or any substances banned by regulation in force at the time of its commercialization.

The materials used in the Manufacturing (M) of this product can be broken down as follows:



Material weight as a percent of total weight.  
Materials comprising  $\leq 0.60\%$  of the total product weight are not included in this chart.

## Manufacturing

This product was manufactured by Schneider Electric in France. This manufacturing site has an Environmental Management System in accordance with ISO 14001.

## Distribution

The distribution is ensured by distribution centers in Europe and America, through our subsidiaries in each country. Packaging is designed to facilitate the use of standardized containers.

## Utilization

This product was designed to optimize energy consumption while in use. This product is soundless and produces no waste in use.

# Product Environmental Profile - PEP

## End of life

The ECO-Design program at Schneider Electric has among its objectives, the recycling optimization of its products. The proportion of recyclable materials in this product is 47 %. This percentage is calculated using databases based on national averages, and on existing recycling networks.

## Environmental impacts

The environmental impacts resulting from the product's life cycle were calculated by Environmental Information and Management Explorer (EIME) software for a product use life of 10 years. They take into account of the Manufacturing (M), Distribution (D), and Usage (U) phases.

### Presentation of product environmental impacts:

Environmental indicators	Unit	TCSEGDB23F24FA (1.000 unit)			
		S = M + D + U	M	D	U
Raw Material Depletion	Y-1	8.44 10 <sup>-14</sup>	8.10 10 <sup>-14</sup>	7.90 10 <sup>-19</sup>	3.45 10 <sup>-15</sup>
Energy Depletion	MJ	3.55 10 <sup>3</sup>	4.60 10	5.68 10 <sup>-1</sup>	3.50 10 <sup>3</sup>
Water Depletion	dm <sup>3</sup>	5.31 10 <sup>2</sup>	1.61 10	5.49 10 <sup>-2</sup>	5.15 10 <sup>2</sup>
Global Warming Potential	g≈CO <sub>2</sub>	1.95 10 <sup>5</sup>	2.89 10 <sup>3</sup>	4.95 10	1.92 10 <sup>5</sup>
Ozone Depletion	g≈CFC-11	2.00 <sup>-2</sup>	1.99 10 <sup>-4</sup>	3.25 10 <sup>-5</sup>	1.98 10 <sup>-2</sup>
Air Toxicity	m <sup>3</sup>	3.69 10 <sup>7</sup>	7.42 10 <sup>5</sup>	1.83 10 <sup>4</sup>	3.62 10 <sup>7</sup>
Photochemical Ozone Creation	g≈C <sub>2</sub> H <sub>4</sub>	7.22 10 <sup>1</sup>	6.09 10	6.19 10 <sup>-2</sup>	6.60 10 <sup>1</sup>
Air Acidification	g≈H <sup>+</sup>	3.02 10 <sup>1</sup>	5.35 10 <sup>-1</sup>	1.17 10 <sup>-2</sup>	2.97 10 <sup>1</sup>
Water Toxicity	dm <sup>3</sup>	4.16 10 <sup>4</sup>	2.16 10 <sup>3</sup>	5.68 10	3.95 10 <sup>4</sup>
Water Eutrophication	g≈PO <sub>4</sub>	3.13 10	2.45 10	8.31 10 <sup>-4</sup>	6.72 10 <sup>-1</sup>
Hazardous Waste Production	kg	2.66 10	2.16 10 <sup>-2</sup>	1.75 10 <sup>-5</sup>	2.63 10

# Product Environmental Profile - PEP

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We are committed to safeguarding our planet by "Combining innovation and continuous improvement to meet the new environmental challenges".

This document is based on ISO 14020 which relates to the general principles of environmental declarations and the ISO TR 14025 technical report relating to type III environmental declarations.

It was produced according to the instructions in the PEP drafting guide, version 4.

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