Product Environmental Profile

Wiser ZB/IP Gateway
General information

Representative product
Wiser ZB/IP Gateway - CCT501400

Description of the product
The Wiser ZB/IP Gateway is a communication interface that can connect to all your Wiser Zigbee devices, enabling you to easily manage your home environment, and it comply with standard EN 60950-1 and IEC 60950-1.

Functional unit
Monitors and controls Wiser Zigbee devices through the Wiser by SE app, Ethernet or WLAN, for 10 years. Through the Wiser by SE app scheduler, can create moments to automatically operate Wiser Zigbee devices at specified times. The function unit is accordance with the following technical data:
- IP20
- Operating temperature from 0 °C to +40 °C
- Relative humidity from 10% to 90%

Constituent materials

Reference product mass
339.4 g including the product, its packaging and additional elements and accessories

Plastics
ABS Acrylonitrile Butadiene Styrene - 22.9%
PET Polyethylene Terephthalate - 22.4%
Cardboard - 25.4%

Metals
Bronze - 0.4%
Ferrous alloys - 0.1%
Steel - 19.9%

Others
Electronic components - 8.9%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive.

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page
### Additional environmental information

The Wiser ZB/IP Gateway presents the following relevant environmental aspects:

**Manufacturing**
- Manufactured at a Schneider Electric production site ISO14001 certified

**Distribution**
- Weight and volume of the packaging optimized, based on the European Union's packaging directive
- Packaging weight is 162.4 g, consisting of cardboard (53.1%), APET (46.9%)

**Installation**
- Reference CCT501400 does not require any installation operations. Packaging waste is considered in installation.

**Use**
- The product does not require special maintenance operations.

**End of life**
- End of life optimized to decrease the amount of waste and allow recovery of the product components and materials
- This product contains electronic card (28.6g) and battery (0.9g) that should be separated from the stream of waste so as to optimize end-of-life treatment.
- The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Recyclability potential: **71%**

### Environmental impacts

<table>
<thead>
<tr>
<th>Reference life time</th>
<th>10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product category</td>
<td>Other equipments - Active product</td>
</tr>
<tr>
<td>Installation elements</td>
<td>No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.</td>
</tr>
<tr>
<td>Use scenario</td>
<td>The product is in active mode 100% of the time with a power use of 2.04W, for 10 years</td>
</tr>
<tr>
<td>Geographical representativeness</td>
<td>Vietnam</td>
</tr>
<tr>
<td>Technological representativeness</td>
<td>The Wiser ZB/IP Gateway is a communication interface that can connect to all your Wiser Zigbee devices, enabling you to easily manage your home environment, and it comply with standard EN 60950-1 and IEC 60950-1.</td>
</tr>
</tbody>
</table>

#### Energy model used

**Manufacturing**
- Energy model used: Japan

**Installation**
- Electricity mix; AC; consumption mix, at consumer; 127-220V; VN

**Use**
- Electricity mix; AC; consumption mix, at consumer; 127-220V; VN

**End of life**
- Electricity mix; AC; consumption mix, at consumer; 127-220V; VN

### Compulsory indicators

<table>
<thead>
<tr>
<th>Impact indicators</th>
<th>Unit</th>
<th>Total</th>
<th>Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contribution to mineral resources depletion</td>
<td>kg Sb eq</td>
<td>3.08E-03</td>
<td>3.08E-03</td>
<td>0*</td>
<td>0*</td>
<td>1.06E-06</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO₂ eq</td>
<td>8.78E-02</td>
<td>1.25E-02</td>
<td>2.00E-04</td>
<td>4.91E-05</td>
<td>7.50E-02</td>
<td>6.34E-05</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO₄³- eq</td>
<td>2.22E-02</td>
<td>2.30E-03</td>
<td>4.61E-05</td>
<td>3.41E-05</td>
<td>1.98E-02</td>
<td>2.22E-05</td>
</tr>
<tr>
<td>Contribution to global warming</td>
<td>kg CO₂ eq</td>
<td>1.06E+02</td>
<td>5.55E+00</td>
<td>4.38E-02</td>
<td>1.23E-02</td>
<td>1.00E+02</td>
<td>5.50E-02</td>
</tr>
<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>5.43E-06</td>
<td>1.48E-06</td>
<td>0*</td>
<td>0*</td>
<td>3.95E-06</td>
<td>2.30E-09</td>
</tr>
<tr>
<td>Contribution to photochemical oxidation</td>
<td>kg C₂H₄ eq</td>
<td>1.93E-02</td>
<td>1.05E-03</td>
<td>1.43E-05</td>
<td>3.74E-06</td>
<td>1.82E-02</td>
<td>6.17E-06</td>
</tr>
</tbody>
</table>

### Resources use

<table>
<thead>
<tr>
<th>Resources use</th>
<th>Unit</th>
<th>Total</th>
<th>Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net use of freshwater</td>
<td>m³</td>
<td>1.40E-01</td>
<td>7.34E-02</td>
<td>0*</td>
<td>0*</td>
<td>6.66E-02</td>
<td>3.66E-05</td>
</tr>
<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
<td>1.10E+03</td>
<td>8.12E+01</td>
<td>6.19E-01</td>
<td>1.47E-01</td>
<td>1.02E+03</td>
<td>3.00E-01</td>
</tr>
</tbody>
</table>
### Manufacturing
- Contribution to mineral resources depletion
- Contribution to the soil and water acidification
- Contribution to water eutrophication
- Contribution to global warming
- Contribution to ozone layer depletion
- Contribution to photochemical oxidation

### Distribution
- Net use of freshwater

### Installation
- Total Primary Energy

### Use
- Contribution to fossil resources depletion
- Contribution to air pollution
- Contribution to water pollution

### End of Life
- Resources use
- Use of secondary material
- Total use of renewable primary energy resources
- Total use of non-renewable primary energy resources
- Use of renewable primary energy excluding renewable primary energy used as raw material
- Use of renewable primary energy resources used as raw material
- Use of non renewable primary energy excluding non renewable primary energy used as raw material

### Waste categories
- Hazardous waste disposed
- Non hazardous waste disposed
- Radioactive waste disposed

### Other environmental information
- Materials for recycling
- Components for reuse
- Materials for energy recovery
- Exported Energy

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.
Independent verification of the declaration and data

Internal  X  External

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »