Product Environmental Profile

KNX WEATHER STATION BASIC V2
**General information**

**Representative product**
KNX WEATHER STATION BASIC V2 - MTN6904-0001

**Description of the product**
The weather station measures temperature, brightness and wind speed. A rain sensor is also installed on the top of the device. The device is designed for use on buildings.

**Functional unit**
Records weather data, analyses these and transmits them to the bus for 10 years. With integrated bus coupler. The bus is connected using a bus connecting terminal.
An additional AC 230 V power supply is required for the heating unit. IP 44 in accordance with the standard IEC 60529.

**Constituent materials**

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

**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.

The KNX WEATHER STATION BASIC V2 presents the following relevant environmental aspects

**Design**
The wide range power input save the cost and energy consumption of additional converters. The dynamic slat control optimize energy efficiency of cooling and lighting.

**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 384 g, consisting of cardboard (97%), PE film (2%), paper (1%)
Product distribution optimised by setting up local distribution centres

**Installation**
Ref MTN6904-0001 can be wall mounted or attached to a mast with mast or corner fixing (accessory).

**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 cards (64g), cables (11g) 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


Recyclability potential: **81%**
Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

### Environmental impacts

#### Reference life time
10 years

#### Installation elements
Materials for installation (screws, washers, nylon expansion plugs, plastic straps).

#### Use scenario
The product is in active mode 99% of the time with a power use of 0.7W (max. 5.5W) and in stand-by mode 1% of the time with a power use 0.5W for 10 years. Active value depending if the rain sensor is ON or not.

Europe, Asia, South America

The weather station measures temperature, brightness and wind speed. A rain sensor is also installed on the top of the device. The device is designed for use on buildings.

#### Geographical representativeness
Europe, Asia, South America

#### Technological representativeness
The weather station measures temperature, brightness and wind speed. A rain sensor is also installed on the top of the device. The device is designed for use on buildings.

#### Energy model used
Energy model used: Germany

<table>
<thead>
<tr>
<th>Energy model used</th>
<th>Manufacturing</th>
<th>Installation</th>
<th>Use</th>
<th>End of life</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electricity grid mix; AC; consumption mix, at consumer; &lt; 1kV; EU-27</td>
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</tbody>
</table>

#### 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>4,36E-03</td>
<td>4,35E-03</td>
<td>0*</td>
<td>0*</td>
<td>1,15E-05</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO₂ eq</td>
<td>5,89E-01</td>
<td>1,64E-02</td>
<td>2,20E-02</td>
<td>0*</td>
<td>5,50E-01</td>
<td>1,73E-04</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO₄³⁻ eq</td>
<td>5,93E-02</td>
<td>2,28E-02</td>
<td>2,23E-03</td>
<td>1,00E-03</td>
<td>3,32E-02</td>
<td>6,08E-05</td>
</tr>
<tr>
<td>Contribution to global warming</td>
<td>kg CO₂ eq</td>
<td>1,41E+02</td>
<td>7,71E+00</td>
<td>9,47E-01</td>
<td>5,19E-01</td>
<td>1,32E+02</td>
<td>1,53E-01</td>
</tr>
<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>9,53E-06</td>
<td>7,12E-07</td>
<td>2,17E-07</td>
<td>1,30E-09</td>
<td>8,59E-06</td>
<td>6,10E-09</td>
</tr>
<tr>
<td>Contribution to photochemical oxidation</td>
<td>kg C₂H₄ eq</td>
<td>3,33E-02</td>
<td>1,87E-03</td>
<td>1,06E-03</td>
<td>1,24E-04</td>
<td>3,02E-02</td>
<td>1,71E-05</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>4,78E+02</td>
<td>5,58E-02</td>
<td>0*</td>
<td>0*</td>
<td>4,78E+02</td>
<td>0*</td>
</tr>
<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
<td>2,78E+03</td>
<td>1,30E+02</td>
<td>1,18E+01</td>
<td>0*</td>
<td>2,64E+03</td>
<td>8,37E-01</td>
</tr>
</tbody>
</table>
**Impact indicators**

- Contribution to fossil resources depletion
- Contribution to air pollution
- Contribution to water pollution
- 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
- Use of non renewable primary energy resources used as raw material
- Use of non renewable secondary fuels
- Use of renewable secondary fuels

**Resources use**

- Unit: kg, MJ

**Optional indicators**

- Life cycle assessment performed with EIME version EIME v5.7.0.3, 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.

<table>
<thead>
<tr>
<th>Registration number</th>
<th>SCHN-00363-V01.01-EN</th>
<th>Drafting rules</th>
<th>PCR-ed3-EN-2015 04 02</th>
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<tr>
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<td>VH33</td>
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<td>Date of issue</td>
<td>07/2018</td>
<td>Information and reference documents</td>
<td><a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a></td>
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<td>Internal</td>
<td>X</td>
<td>Validity period</td>
<td>5 years</td>
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Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2014

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

Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »

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