Product Environmental Profile

EASYLOGIC PM1130H DUAL VAF PWR ENERGY RELAY CL 0.5 RS485

[Image of the EasyLogic PM1130H DUAL VAF PWR ENERGY RELAY CL 0.5 RS485]
General information

Representative product
EASYLOGIC PM1130H DUAL VAF PWR ENERGY RELAY CL 0.5 RS485 -METSEPM1130HCL05RS

Description of the product
The main function of the EASYLOGIC PM1130H DUAL VAF PWR ENERGY RELAY CL 0.5 RS485 Digital panel meters is for measurement of either VAF PF parameter or energy parameter or multi-function parameters or dual source power and energy parameters It has large 8 segment alphanumeric LED display, intuitive navigation with self-guided 4 buttons. bright red colour LEDs of 14.2 mm (0.55 in) height with 12 LEDs for indicating the percentage of load in the circuit.

Functional unit
To measure and display power consumption for 10 years

Constituent materials

Reference product mass
419.94 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.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
The EASYLOGIC PM1130H DUAL VAF PW ENERGY RELAY CL 0.5 RS485 presents the following relevant environmental aspects:

**Manufacturing**
- Weight and volume of the packaging optimized, based on the European Union's packaging directive.
- Packaging weight is 123.4 g, consisting of cardboard (69%), PE film (5.7%), Paper (21.5%), Polyester fibre (3.8%).
- Product distribution optimised by setting up local distribution centres.

**Distribution**
- End of life optimized to decrease the amount of waste and allow recovery of the product components and materials.
- This product contains Electronic Cards (180g), Battery (10g) that should be separated from the stream of waste so as to optimize end-of-life treatment.

**End of life**
- Recyclability potential: 11%

**Environmental impacts**

<table>
<thead>
<tr>
<th>Reference life time</th>
<th>10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product category</td>
<td>Active products</td>
</tr>
<tr>
<td>Installation elements</td>
<td>No special components needed</td>
</tr>
<tr>
<td>Use scenario</td>
<td>Consumed power is 2 W 100% of the time in Active mode, W 0% of the time in Standby mode, W 0% of the time in Sleep mode and W 0% of the time in Off mode.</td>
</tr>
<tr>
<td>Geographical representativeness</td>
<td>Global</td>
</tr>
<tr>
<td>Technological representativeness</td>
<td>The main function of the EASYLOGIC PM1130H DUAL VAF PW ENERGY RELAY CL 0.5 RS485 Digital panel meters is for measurement of either VAF PF parameter or energy parameter or multi-function parameters or dual source power and energy parameters. It has large 8 segment alpha-numeric LED display, intuitive navigation with self-guided 4 buttons, bright red colour LEDs of 14.2 mm (0.55 in) height with 12 LEDs for indicating the percentage of load in the circuit.</td>
</tr>
</tbody>
</table>

**Energy model used**
- The energy model used is SEPM, Bangalore-India.
- Manufacturing: Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27.
- Installation: Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27.
- Use: Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27.
- End of life: Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27.

### 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>2.01E-03</td>
<td>2.00E-03</td>
<td>0*</td>
<td>0*</td>
<td>7.46E-06</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO₂ eq</td>
<td>3.84E-01</td>
<td>2.54E-02</td>
<td>2.47E-04</td>
<td>0*</td>
<td>3.58E-01</td>
<td>1.17E-04</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO₄³⁻ eq</td>
<td>3.23E-02</td>
<td>1.04E-02</td>
<td>5.70E-05</td>
<td>2.43E-04</td>
<td>2.16E-02</td>
<td>4.68E-05</td>
</tr>
<tr>
<td>Contribution to global warming</td>
<td>kg CO₂ eq</td>
<td>9.99E+01</td>
<td>1.38E+01</td>
<td>5.42E-02</td>
<td>1.53E-01</td>
<td>8.58E+01</td>
<td>1.28E-01</td>
</tr>
<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>7.32E-06</td>
<td>1.73E-06</td>
<td>0*</td>
<td>0*</td>
<td>5.59E-06</td>
<td>4.92E-09</td>
</tr>
<tr>
<td>Contribution to photochemical oxidation</td>
<td>kg C₆H₆ eq</td>
<td>2.40E-02</td>
<td>4.26E-03</td>
<td>1.77E-05</td>
<td>2.88E-05</td>
<td>1.97E-02</td>
<td>1.07E-05</td>
</tr>
<tr>
<td>Net use of freshwater</td>
<td>m³</td>
<td>3.11E+02</td>
<td>5.87E-02</td>
<td>0*</td>
<td>0*</td>
<td>3.11E+02</td>
<td>0*</td>
</tr>
<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
<td>1.97E+03</td>
<td>2.50E+02</td>
<td>7.66E-01</td>
<td>0*</td>
<td>1.71E+03</td>
<td>5.28E-01</td>
</tr>
</tbody>
</table>

**End of Life Instructions**

- EASYLOGIC PM1130H DUAL VAF PW ENERGY RELAY CL 0.5 RS485 - METSEPM1130HCL05RS

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The EASYLOGIC PM1130H DUAL VAF PW ENERGY RELAY CL 0.5 RS485 is manufactured at a Schneider Electric production site ISO14001 certified.

Manufacturing and distribution of this product follow best practices for minimizing environmental impact.

**Packaging**

- Weight and volume of the packaging optimized, based on the European Union’s packaging directive.
- Packaging weight is 123.4 g, consisting of cardboard (69%), PE film (5.7%), Paper (21.5%), Polyester fibre (3.8%).
- Product distribution optimised by setting up local distribution centres.

**End of life**

- Recyclability potential: 11%

**Reference life time**

- 10 years

**Product category**

- Active products

**Installation elements**

- No special components needed

**Use scenario**

- Consumed power is 2 W 100% of the time in Active mode, W 0% of the time in Standby mode, W 0% of the time in Sleep mode and W 0% of the time in Off mode.

**Geographical representativeness**

- Global

**Technological representativeness**

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**Impact indicators**

- Compulsory indicators
  - 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
  - Net use of freshwater
  - Total Primary Energy

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**Additional environmental information**

The EASYLOGIC PM1130H DUAL VAF PW ENERGY RELAY CL 0.5 RS485 presents the following relevant environmental aspects:

- Contribution to the soil and water acidification
- Contribution to global warming
- Contribution to ozone layer depletion
- Contribution to photochemical oxidation
- Contributes to water eutrophication
- Contributes to mineral resources depletion
- Contributes to photochemical oxidation
The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Life cycle assessment performed with EIME version EIME v5.5, database version 2016-11.

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 N°</th>
<th>SCHN-00210-V01.01-EN</th>
</tr>
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<tbody>
<tr>
<td>Verifier accreditation N°</td>
<td>VH08</td>
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<tr>
<td>Date of issue</td>
<td>07/2017</td>
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</tbody>
</table>

Drafting rules: PCR-ed3-EN-2015 04 02
Supplemented by: PSR-0005-ed2-EN-2016 03 29

Information and reference documents: www.pep-ecopassport.org

Validity period: 5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal: X

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

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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