

Product Environmental Profile

PowerLogic PM89RD96 Remote Display





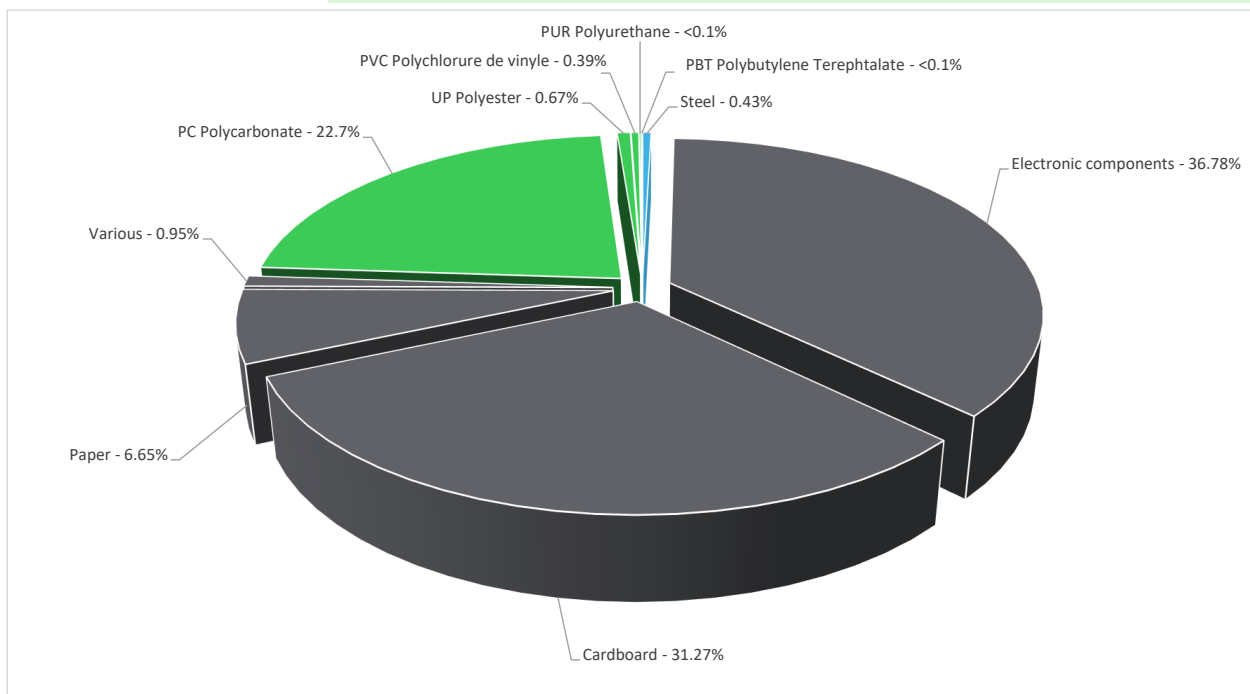
General information

| | |
|----------------------------|--|
| Reference product | PowerLogic PM89RD96 Remote Display - METSEPM89RD96 |
| Description of the product | The METSEPM89RD96 is a remote display unit designed for the PowerLogic PM8000 and ION7400 series, featuring a color graphical LCD with a push-button interface, a 3-meter cable, and mounting accessories. It provides a user-friendly interface for monitoring power quality and energy consumption, displaying information such as power, energy consumption, harmonics, frequency, voltage, current, alarms, and input/output status. The unit includes a color TFT LCD with a resolution of 320 x 240 pixels, 5 push-buttons for navigation, status and alarm LEDs, and is flush-mounted with an IP54 rating for ingress protection. It operates within a temperature range of -25 to 60°C, can be stored at temperatures from -40 to 85°C, supports relative humidity from 5 to 95%, and functions at altitudes up to 3000 meters, enhancing the functionality of PowerLogic meters by providing clear and accessible monitoring of critical power and energy parameters. |
| Description of the range | Single product |
| Functional unit | To monitor and manage power quality and energy consumption, displaying parameters such as power, energy consumption, harmonics, frequency, voltage, current, alarms, and input/output status, with a consumption of 2.4 Watts in active mode (10% runtime) and 3.2 Watts in standby mode 90% time repartition, resulting in a total energy consumption of 273.312 kWh over 10 years, in accordance with the relevant standards. |
| Specifications are: | <p>Display Compatibility: PowerLogic PM8000, ION7400, ION9000</p> <p>Display Type: Color TFT LCD</p> <p>Resolution: 320 x 240 pixels (QVGA)</p> <p>Display Size: 96mm x 96mm (3.5 inches)</p> <p>Interface: 5 push-buttons for navigation</p> <p>Local Signaling: Status LED (green), Alarm LED (red)</p> <p>Connector Type: RJ45</p> <p>Provided Equipment: 3-meter cable, mounting hardware</p> <p>Mounting Mode: Flush-mounted using a 30 mm push-button hole or 1/4 DIN cutout</p> <p>Ingress Protection: IP54 (UL type 12) rating</p> <p>Operating Temperature: -25 to 60°C</p> <p>Storage Temperature: -40 to 85°C</p> <p>Relative Humidity: 5 to 95%</p> <p>Operating Altitude: Up to 3000 meters</p> <p>Weight: 300 grams (10.6 oz)</p> <p>Dimensions: Width: 96 mm, Height: 96 mm, Depth: 27 mm</p> |



Constituent materials

| | |
|------------------------|---|
| Reference product mass | 500 g including the product and its packaging |
|------------------------|---|



| | |
|----------|-------|
| Plastics | 23.9% |
| Metals | 0.4% |
| Others | 75.7% |

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website

<https://www.se.com>

Additional environmental information

| | | | |
|-------------|--------------------------|-----|--|
| End Of Life | Recyclability potential: | 10% | The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability). |
|-------------|--------------------------|-----|--|

Environmental impacts

| | | | | |
|----------------------------------|---|----------------|--|--|
| Reference service life time | 10 years | | | |
| Product category | Other equipments - Active product | | | |
| Life cycle of the product | The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study | | | |
| Electricity consumption | The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption | | | |
| Installation elements | The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal) | | | |
| Use scenario | The product is in active mode 10% of the time with a power use of 2.4W and in stand-by mode 90% of the time with a power use of 3.2W, for 10 years | | | |
| Time representativeness | The collected data are representative of the year 2025 | | | |
| Technological representativeness | The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product. | | | |
| Geographical representativeness | Final assembly site | Use phase | | End-of-life |
| | China | Global | | Global |
| Energy model used | [A1 - A3] | [A5] | [B6] | [C1 - C4] |
| | Electricity Mix; Low voltage; 2020; China, CN | No energy used | Electricity Mix; Low voltage; 2020; Global, GLO | Global, European and French datasets are used. |
| | Electricity Mix; Low voltage; 2020; Europe, EU-27 | | Electricity Mix; Low voltage; 2020; United States, US | |
| | | | Electricity Mix; Low voltage; 2020; China, CN | |
| | | | Electricity Mix; Low voltage; 2020; Asia Pacific, APAC | |

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

| Mandatory Indicators | | PowerLogic PM89RD96 Remote Display - METSEPM89RD96 | | | | | | |
|--|--------------|--|---------------------------|---------------------|---------------------|-----------------|-------------------------|--------------------------|
| Impact indicators | Unit | Total (without Module D) | [A1 - A3] - Manufacturing | [A4] - Distribution | [A5] - Installation | [B1 - B7] - Use | [C1 - C4] - End of life | [D] - Benefits and loads |
| Contribution to climate change | kg CO2 eq | 1.57E+02 | 1.09E+01 | 4.92E-01 | 3.07E-01 | 1.45E+02 | 7.14E-01 | -7.62E-02 |
| Contribution to climate change-fossil | kg CO2 eq | 1.56E+02 | 1.11E+01 | 4.92E-01 | 6.70E-02 | 1.44E+02 | 7.14E-01 | -7.02E-02 |
| Contribution to climate change-biogenic | kg CO2 eq | 1.01E+00 | -2.40E-01 | 0* | 2.40E-01 | 1.01E+00 | 2.50E-04 | -5.98E-03 |
| Contribution to climate change-land use and land use change | kg CO2 eq | 1.77E-04 | 1.77E-04 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to ozone depletion | kg CFC-11 eq | 3.11E-06 | 2.03E-06 | 4.35E-07 | 2.42E-09 | 6.37E-07 | 5.32E-09 | -2.08E-08 |
| Contribution to acidification | mol H+ eq | 8.57E-01 | 6.81E-02 | 2.14E-03 | 4.06E-04 | 7.85E-01 | 8.45E-04 | -4.99E-03 |
| Contribution to eutrophication, freshwater | kg P eq | 2.58E-04 | 6.89E-05 | 5.77E-08 | 7.92E-08 | 1.87E-04 | 1.19E-06 | -1.02E-07 |
| Contribution to eutrophication marine | kg N eq | 1.03E-01 | 9.22E-03 | 9.84E-04 | 1.02E-04 | 9.25E-02 | 2.82E-04 | -7.79E-05 |
| Contribution to eutrophication, terrestrial | mol N eq | 1.25E+00 | 9.96E-02 | 1.07E-02 | 1.35E-03 | 1.13E+00 | 3.14E-03 | -9.16E-04 |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 3.40E-01 | 3.07E-02 | 3.50E-03 | 2.87E-04 | 3.05E-01 | 7.86E-04 | -5.73E-04 |
| Contribution to resource use, minerals and metals | kg Sb eq | 2.32E-03 | 2.29E-03 | 0* | 0* | 2.44E-05 | 0* | -5.07E-05 |
| Contribution to resource use, fossils | MJ | 3.09E+03 | 1.52E+02 | 6.13E+00 | 1.24E+00 | 2.93E+03 | 2.17E+00 | -1.30E+00 |
| Contribution to water use | m3 eq | 1.32E+01 | 4.20E+00 | 2.50E-02 | 3.87E-03 | 8.21E+00 | 7.32E-01 | -2.54E-01 |

| Inventory flows Indicators | | PowerLogic PM89RD96 Remote Display - METSEPM89RD96 | | | | | | |
|---|------|--|---------------------------|---------------------|---------------------|-----------------|-------------------------|--------------------------|
| Inventory flows | Unit | Total (without Module D) | [A1 - A3] - Manufacturing | [A4] - Distribution | [A5] - Installation | [B1 - B7] - Use | [C1 - C4] - End of life | [D] - Benefits and loads |
| Contribution to use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 4.14E+02 | 9.33E+00 | 0* | 1.07E-01 | 4.04E+02 | 6.94E-02 | -1.29E-01 |
| Contribution to use of renewable primary energy resources used as raw material | MJ | 1.59E+00 | 1.59E+00 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to total use of renewable primary energy resources | MJ | 4.15E+02 | 1.09E+01 | 0* | 1.07E-01 | 4.04E+02 | 6.94E-02 | -1.29E-01 |
| Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 3.08E+03 | 1.45E+02 | 6.13E+00 | 1.24E+00 | 2.93E+03 | 2.17E+00 | -1.30E+00 |
| Contribution to use of non renewable primary energy resources used as raw material | MJ | 7.04E+00 | 7.04E+00 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to total use of non-renewable primary energy resources | MJ | 3.09E+03 | 1.52E+02 | 6.13E+00 | 1.24E+00 | 2.93E+03 | 2.17E+00 | -1.30E+00 |
| Contribution to use of secondary material | kg | 1.26E-01 | 1.26E-01 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to net use of freshwater | m³ | 3.23E-01 | 9.72E-02 | 5.82E-04 | 8.84E-05 | 1.91E-01 | 3.36E-02 | -6.36E-03 |
| Contribution to hazardous waste disposed | kg | 3.79E+01 | 3.43E+01 | 0* | 7.29E-02 | 3.38E+00 | 1.58E-01 | -3.92E+00 |
| Contribution to non hazardous waste disposed | kg | 2.78E+01 | 4.45E+00 | 0* | 8.86E-03 | 2.32E+01 | 1.66E-01 | -1.12E-02 |
| Contribution to radioactive waste disposed | kg | 5.44E-03 | 1.31E-03 | 9.80E-05 | 3.69E-06 | 4.02E-03 | 9.36E-06 | -8.15E-06 |
| Contribution to components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to materials for recycling | kg | 3.39E-02 | 1.31E-03 | 0* | 0* | 0* | 3.26E-02 | 0.00E+00 |
| Contribution to materials for energy recovery | kg | 1.94E-01 | 0* | 0* | 1.94E-01 | 0* | 0* | 0.00E+00 |
| Contribution to exported energy | MJ | 3.11E-05 | 9.72E-06 | 0* | 0* | 0* | 2.14E-05 | 0.00E+00 |

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

| | | |
|---|---------|----------|
| Contribution to biogenic carbon content of the product | kg of C | 0.00E+00 |
| Contribution to biogenic carbon content of the associated packaging | kg of C | 5.76E-02 |

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)


| Mandatory Indicators | | PowerLogic PM89RD96 Remote Display - METSEPM89RD96 | | | | | | | |
|--|--------------|--|------|------|------|------|------|----------|------|
| Impact indicators | Unit | [B1 - B7] - Use | [B1] | [B2] | [B3] | [B4] | [B5] | [B6] | [B7] |
| Contribution to climate change | kg CO2 eq | 1.45E+02 | 0* | 0* | 0* | 0* | 0* | 1.45E+02 | 0* |
| Contribution to climate change-fossil | kg CO2 eq | 1.44E+02 | 0* | 0* | 0* | 0* | 0* | 1.44E+02 | 0* |
| Contribution to climate change-biogenic | kg CO2 eq | 1.01E+00 | 0* | 0* | 0* | 0* | 0* | 1.01E+00 | 0* |
| Contribution to climate change-land use and land use change | kg CO2 eq | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to ozone depletion | kg CFC-11 eq | 6.37E-07 | 0* | 0* | 0* | 0* | 0* | 6.37E-07 | 0* |
| Contribution to acidification | mol H+ eq | 7.85E-01 | 0* | 0* | 0* | 0* | 0* | 7.85E-01 | 0* |
| Contribution to eutrophication, freshwater | kg P eq | 1.87E-04 | 0* | 0* | 0* | 0* | 0* | 1.87E-04 | 0* |
| Contribution to eutrophication marine | kg N eq | 9.25E-02 | 0* | 0* | 0* | 0* | 0* | 9.25E-02 | 0* |
| Contribution to eutrophication, terrestrial | mol N eq | 1.13E+00 | 0* | 0* | 0* | 0* | 0* | 1.13E+00 | 0* |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 3.05E-01 | 0* | 0* | 0* | 0* | 0* | 3.05E-01 | 0* |
| Contribution to resource use, minerals and metals | kg Sb eq | 2.44E-05 | 0* | 0* | 0* | 0* | 0* | 2.44E-05 | 0* |
| Contribution to resource use, fossils | MJ | 2.93E+03 | 0* | 0* | 0* | 0* | 0* | 2.93E+03 | 0* |
| Contribution to water use | m3 eq | 8.21E+00 | 0* | 0* | 0* | 0* | 0* | 8.21E+00 | 0* |

| Inventory flows Indicators | | PowerLogic PM89RD96 Remote Display - METSEPM89RD96 | | | | | | | |
|---|----------------|--|------|------|------|------|------|----------|------|
| Inventory flows | Unit | [B1 - B7] - Use | [B1] | [B2] | [B3] | [B4] | [B5] | [B6] | [B7] |
| Contribution to use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 4.04E+02 | 0* | 0* | 0* | 0* | 0* | 4.04E+02 | 0* |
| Contribution to use of renewable primary energy resources used as raw material | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to total use of renewable primary energy resources | MJ | 4.04E+02 | 0* | 0* | 0* | 0* | 0* | 4.04E+02 | 0* |
| Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 2.93E+03 | 0* | 0* | 0* | 0* | 0* | 2.93E+03 | 0* |
| Contribution to use of non renewable primary energy resources used as raw material | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to total use of non-renewable primary energy resources | MJ | 2.93E+03 | 0* | 0* | 0* | 0* | 0* | 2.93E+03 | 0* |
| Contribution to use of secondary material | kg | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to use of renewable secondary fuels | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to use of non renewable secondary fuels | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to net use of freshwater | m ³ | 1.91E-01 | 0* | 0* | 0* | 0* | 0* | 1.91E-01 | 0* |
| Contribution to hazardous waste disposed | kg | 3.38E+00 | 0* | 0* | 0* | 0* | 0* | 3.38E+00 | 0* |
| Contribution to non hazardous waste disposed | kg | 2.32E+01 | 0* | 0* | 0* | 0* | 0* | 2.32E+01 | 0* |
| Contribution to radioactive waste disposed | kg | 4.02E-03 | 0* | 0* | 0* | 0* | 0* | 4.02E-03 | 0* |
| Contribution to components for reuse | kg | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to materials for recycling | kg | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to materials for energy recovery | kg | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to exported energy | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |

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

Life cycle assessment performed with EIME version v6.3.2, database version 2025-04 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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.

| | | | |
|--|----------------------|-------------------------------------|---|
| Registration number : | SCHN-02068-V01.01-EN | Drafting rules | PEP-PCR-ed4-2021 09 06 |
| | | Supplemented by | PSR-0005-ed3.1-EN-2023 12 08 |
| Verifier accreditation N° | VH42 | Information and reference documents | www.pep-ecopassport.org |
| Date of issue | 11-2025 | Validity period | 5 years |
| Independent verification of the declaration and data, in compliance with ISO 14025 : 2006 | | | |
| Internal | External | X | |
| The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain) | | | |
| PEPs are compliant with NF C08-100-1:2022 and EN 50693:2019 or NF E38-500 :2022 | | | |
| The components of the present PEP may not be compared with components from any other program. | | | |
| Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations" | | | |
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