# Product Environmental Profile

## Differential Wet Pressure Transmitter

# General information

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|---|---|
| **Representative product** | Differential Wet Pressure Transmitter - CP-LI-DP-TR-0400 |
| **Description of the product** | CP Series differential wet pressure transmitters are used to monitor pressure in HVAC pipe systems. |
| **Functional unit** | This product features diffused-silicon sensor technology. The output signal is converted to a standard current or volt age signal compatible with most control systems.<br>Resistant to extreme temperatures, supports both AC and DC power supplies, current and voltage outputs, Ideal for liquid and neutral gas applications. This function is ensured in accordance with the following parameters:<br>- Supply voltage: 24VAC±10%/12-30VDC<br>- Current consumption: Typical 15mA<br>- IP65<br>- Agency approvals: EMC directive (EN61326-1) |

# Constituent materials

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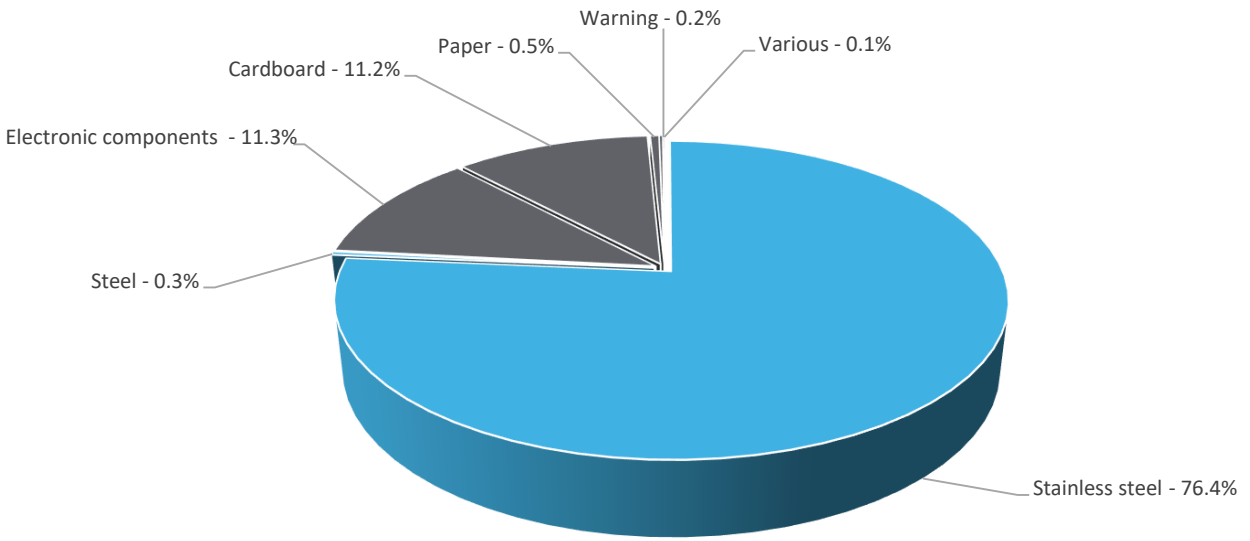
|---|---|
| **Reference product mass** | 1156.3 g including the product, its packaging and additional elements and accessories |

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|---|---|---|
| | Plastics | 0.0% |
| | Metals | 76.7% |
| | Others | 23.3% |

# Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the 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 Differential Wet Pressure Transmitter presents the following relevent 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<br>Packaging weight is 136.3 g, consisting of Cardboard(95.52%), paper(4.33%), PET(0.15%)<br>Product distribution optimised by setting up local distribution centres |
| **Installation** | Ref CP-LI-DP-TR-0400 does not require any installation operations. |
| **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<br>This product contains Electronic card (6.4g), External cable (82g) that should be separated from the stream of waste so as to optimize end-of-life treatment.<br>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<br>http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page<br>Recyclability potential: **64%** 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

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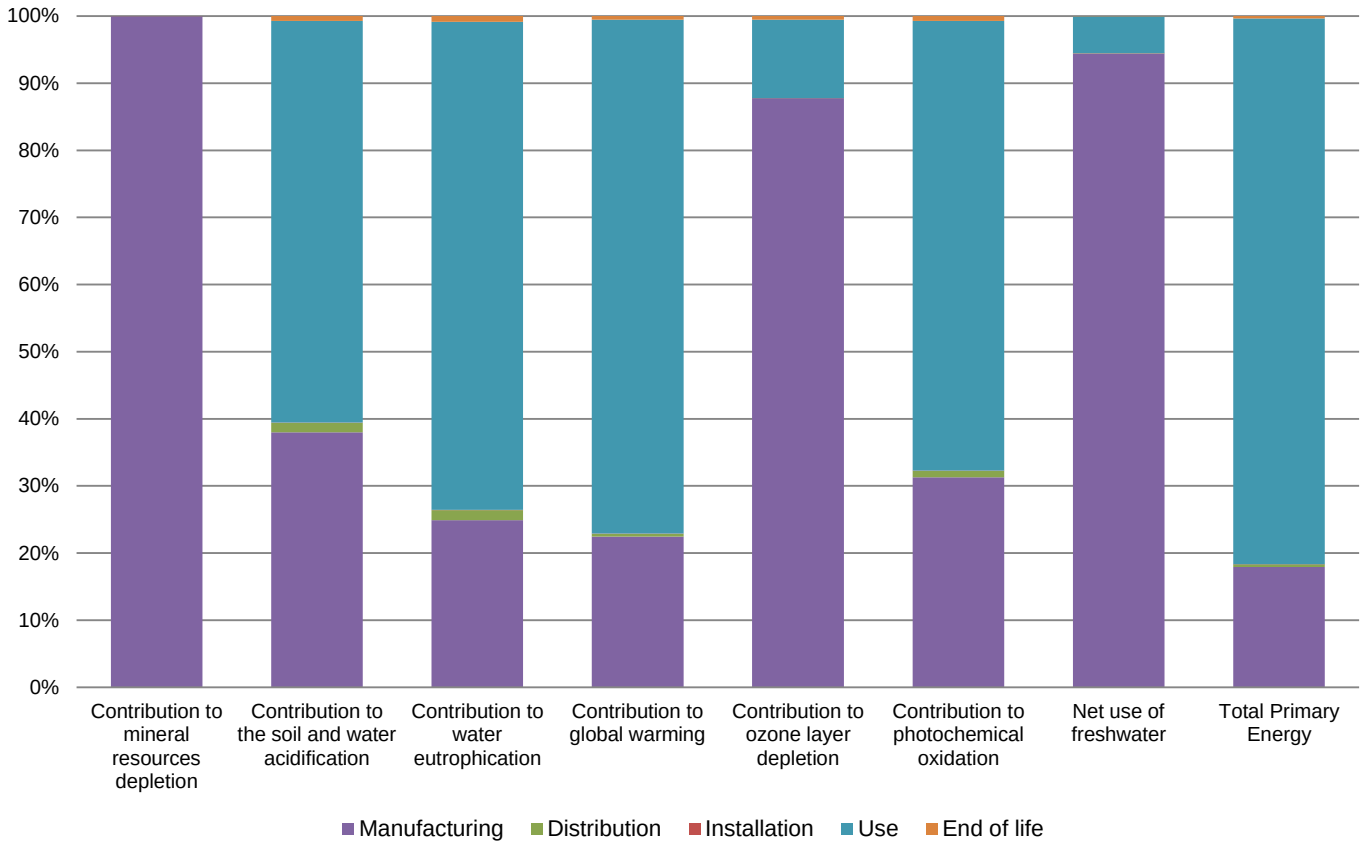
|---|---|
| **Reference life time** | 10 years |
| **Product category** | Other equipments - Active product |
| **Installation elements** | No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation. |
| **Use scenario** | The product is in active mode all the time with a power use of 0.3W, for 10 years. |
| **Geographical representativeness** | China |
| **Technological representativeness** | CP Series differential wet pressure transmitters are used to monitor pressure in HVAC pipe systems. |

| Energy model used | Manufacturing | Installation | Use | End of life |
|---|---|---|---|---|
| | Energy model used: China | Electricity mix; AC; consumption mix, at consumer; 220V; CN | Electricity mix; AC; consumption mix, at consumer; 220V; CN | Electricity mix; AC; consumption mix, at consumer; 220V; CN |

| Compulsory indicators | Differential Wet Pressure Transmitter - CP-LI-DP-TR-0400 | | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 1.37E-03 | 1.37E-03 | 0* | 0* | 0* | 0* |
| Contribution to the soil and water acidification | kg $SO_2$ eq | 4.84E-02 | 1.84E-02 | 6.81E-04 | 3.08E-05 | 2.90E-02 | 3.39E-04 |
| Contribution to water eutrophication | kg $PO_4^{3-}$ eq | 1.05E-02 | 2.62E-03 | 1.57E-04 | 7.54E-06 | 7.65E-03 | 9.21E-05 |
| Contribution to global warming | kg $CO_2$ eq | 3.49E+01 | 7.83E+00 | 1.49E-01 | 7.39E-03 | 2.67E+01 | 1.86E-01 |
| Contribution to ozone layer depletion | kg CFC11 eq | 1.82E-06 | 1.60E-06 | 3.02E-10 | 0* | 2.13E-07 | 1.00E-08 |
| Contribution to photochemical oxidation | kg $C_2H_4$ eq | 5.11E-03 | 1.60E-03 | 4.86E-05 | 2.30E-06 | 3.42E-03 | 3.66E-05 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m3 | 5.42E-01 | 5.12E-01 | 0* | 0* | 2.98E-02 | 1.94E-04 |
| Total Primary Energy | MJ | 5.38E+02 | 9.64E+01 | 2.11E+00 | 9.64E-02 | 4.37E+02 | 1.83E+00 |




| Optional indicators | | Differential Wet Pressure Transmitter - CP-LI-DP-TR-0400 | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to fossil resources depletion | MJ | 4.84E+02 | 7.64E+01 | 2.10E+00 | 9.57E-02 | 4.04E+02 | 1.37E+00 |
| Contribution to air pollution | m³ | 4.15E+03 | 1.36E+03 | 6.35E+00 | 0* | 2.77E+03 | 1.24E+01 |
| Contribution to water pollution | m³ | 1.89E+03 | 4.32E+02 | 2.45E+01 | 1.12E+00 | 1.33E+03 | 1.00E+02 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 3.52E-04 | 3.52E-04 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 2.54E+01 | 2.98E+00 | 2.81E-03 | 0* | 2.24E+01 | 0* |
| Total use of non-renewable primary energy resources | MJ | 5.12E+02 | 9.34E+01 | 2.11E+00 | 9.63E-02 | 4.15E+02 | 1.83E+00 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 2.27E+01 | 2.98E-01 | 2.81E-03 | 0* | 2.24E+01 | 0* |
| Use of renewable primary energy resources used as raw material | MJ | 2.69E+00 | 2.69E+00 | 0* | 0* | 0* | 0* |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 5.10E+02 | 9.14E+01 | 2.11E+00 | 9.63E-02 | 4.15E+02 | 1.83E+00 |
| Use of non renewable primary energy resources used as raw material | MJ | 2.04E+00 | 2.04E+00 | 0* | 0* | 0* | 0* |
| Use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| **Waste categories** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Hazardous waste disposed | kg | 5.38E+01 | 5.14E+01 | 0* | 0* | 8.62E-01 | 1.49E+00 |
| Non hazardous waste disposed | kg | 1.13E+01 | 6.40E+00 | 5.30E-03 | 1.16E-03 | 4.85E+00 | 5.43E-03 |
| Radioactive waste disposed | kg | 1.81E-03 | 1.64E-03 | 3.78E-06 | 2.02E-07 | 1.60E-04 | 9.03E-06 |
| **Other environmental information** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 8.89E-01 | 1.02E-01 | 0* | 1.35E-01 | 0* | 6.51E-01 |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 5.17E-03 | 0* | 0* | 0* | 0* | 5.17E-03 |
| Exported Energy | MJ | 4.30E-04 | 4.04E-05 | 0* | 3.90E-04 | 0* | 0* |

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

*Life cycle assessment performed with EIME version EIME v5.9.3, database version 2022-01 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.*

| | | | |
|---|---|---|---|
| *Registration number* | ENVPEP2109021_V1 | *Drafting rules* | PCR-ed3-EN-2015 04 02 |
| *Date of issue* | 08/2022 | *Supplemented by* | PSR-0005-ed2-EN-2016 03 29 |
| *Validity period* | 5 years | *Information and reference documents* | www.pep-ecopassport.org |

*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) »*

*Schneider Electric Industries SAS*

*Country Customer Care Center*
*http://www.schneider-electric.com/contact*

*35, rue Joseph Monier*

*CS 30323*

*F- 92506 Rueil Malmaison Cedex*

*RCS Nanterre 954 503 439*
*Capital social 896 313 776 €*

www.schneider-electric.com

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