Product Environmental Profile

CD2 CO2 Sensor





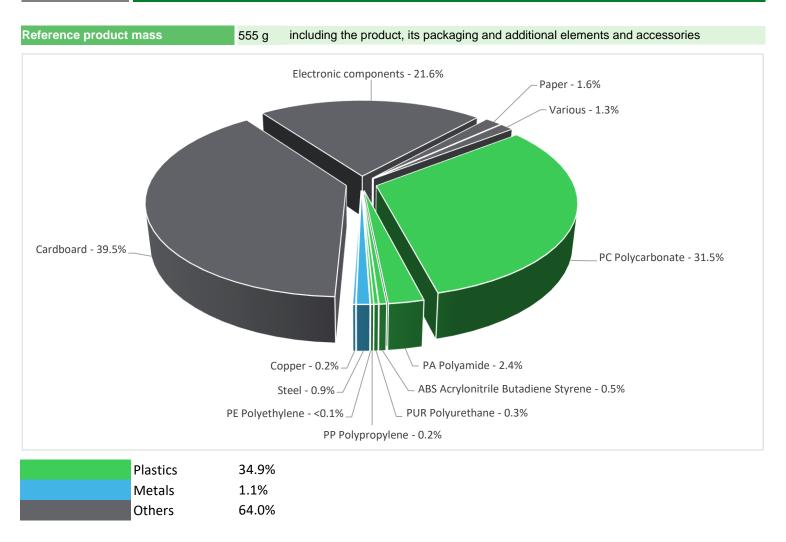




General information

Representative product	CD2 CO2 Sensor - CD2XP2AVP
Description of the product	The plant room sensor is easy to install air quality sensor measuring temperature, humidity, CO2, VOC and PM on duct installations.
Functional unit	Measure air quality parameters and relay the measured outputs as Analog(voltage/current) or serial communication(Modbus / BACnet) consuming 83mA under a voltage of 24V for 10 Years confirming to IP 65 rating (IEC 60529) and EMC standards standards EN 61326-1 and EN 61000.

Constituent materials



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

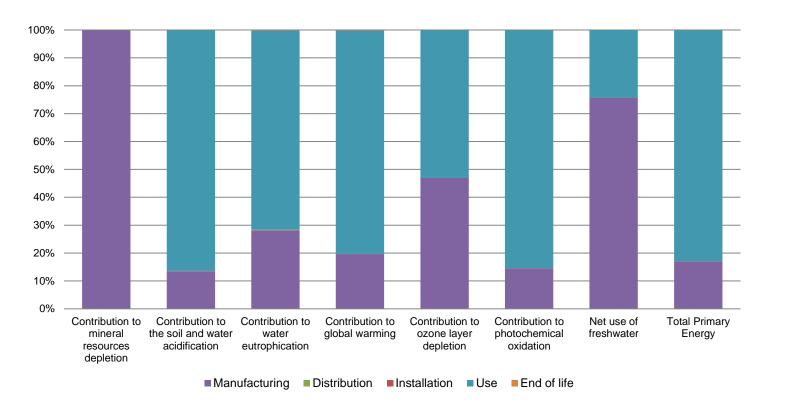
(19) Additional environmental information

	The CD2 CO2 Sensor presents the following relevent environmental aspects					
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified					
	Weight and volume of the packaging optimized, based on the European Union's packaging directive					
Distribution	Packaging weight is 223.9 g, consisting of Cardboard (98.25%), Paper (0.08%), PE-LD (0.02%), PP Polypropylene (0.45%), PC Polycarbonate (1.2%)					
	Product distribution optimised by setting up local distribution centres					
Installation	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	The product does not require special maintenance operations.					
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials					
	This product contains PCBA Board (118.497g), Cable-high current (2.719g) that should be separated from the stream of waste so as to optimize end-of-life treatment.					
End of life	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					
	Based on "ECO'DEEE recyclability and recoverability calculation method" Recyclability potential: 7% (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).					

Environmental impacts

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 100% of the time with a power use of 2W for 10 years						
Geographical representativeness	Global						
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.						
	Manufacturing	Installation	Use	End of life			
Energy model used	Energy model used: Portland	Electricity mix; AC; consumption mix, at consumer; 120V; US at consumer; < 1kV; EU-27, at consumer; 220V; CN, at consumer; 230V; TR & at consumer; 100V; JP	Electricity mix; AC; consumption mix, at consumer; 120V; US at consumer; < 1kV; EU- 27, at consumer; 220V; CN, at consumer; 230V; TR & at consumer; 100V; JP	Electricity mix; AC; consumption mix, at consumer; 120V; US at consumer; < 1kV; EU- 27, at consumer; 220V; CN, at consumer; 230V; TR & at consumer; 100V; JP			

Compulsory indicators	CD2 CO2 Sensor - CD2XP2AVP						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.50E-03	4.50E-03	0*	0*	2.03E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	3.27E-01	4.43E-02	3.27E-04	5.11E-05	2.82E-01	1.57E-04
Contribution to water eutrophication	kg PO ₄ 3- eq	4.23E-02	1.19E-02	7.53E-05	1.35E-05	3.03E-02	7.47E-05
Contribution to global warming	kg CO ₂ eq	1.46E+02	2.88E+01	7.16E-02	0*	1.17E+02	2.30E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.61E-05	7.56E-06	0*	0*	8.55E-06	7.83E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	2.71E-02	3.93E-03	2.33E-05	3.82E-06	2.32E-02	1.33E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	9.05E-01	6.86E-01	0*	0*	2.19E-01	1.20E-04
Total Primary Energy	MJ	2.12E+03	3.63E+02	1.01E+00	0*	1.76E+03	6.79E-01



Optional indicators	CD2 CO2 Sensor - CD2XP2AVP						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.69E+03	3.16E+02	1.01E+00	0*	1.38E+03	5.51E-01
Contribution to air pollution	m³	1.11E+04	2.24E+03	3.05E+00	0*	8.83E+03	4.94E+00
Contribution to water pollution	m³	9.57E+03	3.96E+03	1.18E+01	1.85E+00	5.59E+03	1.30E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.23E-03	4.23E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.29E+02	1.09E+01	0*	0*	1.18E+02	0*
Total use of non-renewable primary energy resources	MJ	1.99E+03	3.52E+02	1.01E+00	0*	1.64E+03	6.78E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.24E+02	6.34E+00	0*	0*	1.18E+02	0*
Use of renewable primary energy resources used as raw material	MJ	4.53E+00	4.53E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.98E+03	3.44E+02	1.01E+00	0*	1.64E+03	6.78E-01
Use of non renewable primary energy resources used as raw material	MJ	8.03E+00	8.03E+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	8.69E+01	8.37E+01	0*	0*	2.41E+00	7.66E-01
Non hazardous waste disposed	kg	1.21E+02	1.08E+01	0*	0*	1.10E+02	0*
Radioactive waste disposed	kg	8.43E-02	3.87E-03	0*	0*	8.04E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.87E-01	4.29E-02	0*	2.20E-01	0*	2.41E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6.08E-02	0*	0*	0*	0*	6.08E-02
Exported Energy	MJ	6.96E-04	6.54E-05	0*	6.31E-04	0*	0*

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

SCHN-00858-V01.01-EN - PEP ECOPASSPORT® - CD2 CO2 Sensor

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2020-12 in compliance with ISO14044.

The Manufacturing phase is impacting on Indicator of Abiotic depletion (elements, ultimate ultimate reserves) (ADPe) and The use phase is the life cycle phase which has the greatest impact on the rest 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: SCHN-00858-V01.01-EN Drafting rules PCR-ed3-EN-2015 04 02

Verifier accreditation N° VH39 Supplemented by PSR-0005-ed2-EN-2016 03 29

Date of issue 09/2022 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 External X

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

PEP are compliant with XP C08-100-1 :2016

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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Published by Schneider Electric

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09/2022