SIEMENS

EPD - Type II
Based on ISO 14021

Smart Infrastructure Building Products

Environmental Product Declaration

Product

Type of equipment / Product No.	RDF400MB	Room thermostat Modbus
	RDF440MB	Room thermostat Modbus
	RDF460MB	Room thermostat Modbus
Product line, Product range	THS	

Process control

Beijing Siemens Cerberus Electronics Ltd.
1, Fengzhi East Road, Xibeiwang, Haidian District
100094, BEIJING / China

Management System	since	by
ISO 9001 (Quality)	06-January-2001	LPCB
ISO 14001 (Environment)	05-July-2005	SGS
OHSAS 18001 (OH&S)	12-December-2011	SGS

Environmentally compatible product design

Product responsibility of Siemens covers the entire product life cycle. Siemens already assesses, avoids and minimizes the environmental impact of its products with respect to production, procurement, sales, use, services and disposal during the product and process planning phases by complying with Siemens EP Standard (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".

Product use

Typical energy consumption	7.008kWh/a
	used ordinary power consumption
Maintenance	Not necessary
	Not necessary

Risk of fire

Fire protection according to	EN 60730-1
Fire load	4MJ

Packaging

22-PAP Paper	Gift_box label	1g
22-PAP Paper	Mounting_instructions	4g
22-PAP Paper	QC_Pass_lable	1g
21-PAP Non-corrugated fibreboard	Gift_box	39g
21-PAP Non-corrugated fibreboard	Gift_box_inner_cardboard	32g
22-PAP Paper	Carton PO label ; (2/20)	1g
20-PAP Corrugated fibreboard	carton_box_inner_cardboard ; (2/20)	17g
Notes on disposal	One-way, recyclable	

Materials

Total weight of device: 172 … 183g

The total weight of a device may deviate from the total of the weights of all individual components due to rounding.

Plastics	PC; low-halogen	Front_cover	12g
	PC; low-halogen	Rear cover	30g
	PC; low-halogen	power_relay_isolation_plate	7g
	PU; low-halogen	cover_lens_gasket_for_touch	1g
	PC; low-halogen	insulation_sheet	3g
	PET; halogenated	Cover_lens_adhesive	1g
	PC; low-halogen	Monuting plate	15g
Metals	Steel; zinc plated	screw_for_front_rear housing	1g
	Steel; zinc plated	mounting_screw_M4x25	5g
Others	ITO Glass/Liquid Crystal/Polarizer	LCD	19g
	Glass	Glass Cover Lens	21g
PCBAs (Printed Circuit Board assembled)	FR4; low-halogen; solder SnPbAg	MP2.0 RDF400MB Main Board	variant
	FR4; low-halogen; solder SnPbAg	230V Power Board	variant
	FR4; low-halogen; solder SnPbAg	MP2.0 RDF400MB Relay Board	variant
	FR4; low-halogen; solder SnPbAg	MP2.0 RDF440MB Main Board	variant
	FR4; low-halogen; solder SnPbAg	24V Power Board	variant

	FR4; low-halogen; solder SnPbAg	MP2.0 RDF440MB Relay Board	variant
	FR4; low-halogen; solder SnPbAg	MP2.0 RDF460MB Main Board	variant
	FR4; low-halogen; solder SnPbAg	MP2.0 RDF460MB Relay Board	variant

***Variant parts list** [g]

Rear cover

MP2.0 RDF400MB Main Board

230V Power Board

MP2.0 RDF400MB Relay Board

MP2.0 RDF440MB Main Board

24V Power Board

MP2.0 RDF440MB Relay Board

MP2.0 RDF460MB Main Board

MP2.0 RDF460MB Relay Board

Fire load [MJ]

Disposal

The symbol or any other national label indicates the product, its packaging and where applicable, any removed batteries may not be disposed as part of normal waste. Delete any personal data and dispose of the item via separate collection and recycling facilities in accordance with local and national regulations. For additional details, refer to www.siemens.com/bt/disposal.

For country-specific requirements regarding further disposal information:
http://www.siemens.com/download?A6V13734633

Comments

EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive, including the 4 phthalates added to Annex II in 2015.

Regulation (EC) No. 1907/2006 (REACH)

The device contains the following substances of the candidate list according to Article 59 (1, 10) of the regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w. Contained REACH candidate substances, including those which will become known at a later date, are listed on the delivery note.
Lead, CAS-Nr.7439-92-1; 4-Nonylphenol, branched and linear, ethoxylated
[substances with a linear and/or branched alkyl chain
with a carbon number of 9 covalently bound in position 4
(Status according to the creation date of this document.)

The device is low-halogen with exception of:
cover_lens_adhesive 0.56g; cover_lens_gasket_for_touch 0.14g

Legal Disclaimer: This declaration is for information purpose only.

This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Beijing Siemens Cerberus Electronics Ltd. therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.