



Environmental Product Declaration

Product	Type of equipment	Fire control panel	
	Designation	FC2020 AA / AE / BB / CC / NA (2-loop)	
	Product line	FS 20	
Process control	Siemens Switzerland Ltd. Building Technologies Group Gubelstrasse 22 CH-6301 Zug		
	Management system certified	since	by
	ISO 14001 (environment)	06.12.2002	Gerling Cert
	ISO 9001 (quality)	06.11.1989	SQS/VdS
Environmentally compatible product design	Product responsibility of Siemens covers the entire product life cycle. Siemens already assess, 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 Siemens Standard SN 36350 "Environmentally compatible products".		
Product use	Typical energy consumption per year	285 kWh/a, AA / AE / NA 142 kWh/a, BB / CC	
	Maintenance	not necessary	
Risk of fire	Fire load	40 MJ, FC2020 AA 45 MJ, FC2020 AE 42 MJ, FC2020 BB 71 MJ, FC2020 CC 73 MJ, FC2020 NA	
Packaging	20-PAP Corrugated fibre board, 2 pcs	Operator unit	770 g / unit
	20-PAP Corrugated fibre board, 2 pcs	Insert operator unit	315 g / unit
	20-PAP Corrugated fibre board, 2 pcs	Insert cover	120 g / insert
	20-PAP Corrugated fibre board	Rear Comfort / Eco	900 g / 424 g
	20-PAP Corrugated fibre board	Insert drilling gage	2UH / 1UH 666 g / 333 g
	FC2020 BB / CC Polyester, polyethylene	Static shielding bag	26 g
	Notes on disposal	One-way, recyclable	

Materials			Total weight device	chart*
Plastics	ABS+PC	halogenated	FHA2011-A2 Cover cap	645 g
	Q Silicone rubber		FCM2012-A1 Keypad	239 g
	Q Silicone rubber		Isolation pad	chart*
	PVC rigid		Flat cable mounting	3 g
	ABS+PC		FHA2011-A1 Cover cap	645 g
	polyester foil		Design foil to FCM	chart*
	Silicone rubber		Rubber Keypad to FTO2004-C1	chart*
	PA		Switching lever	3 g
Metals	Steel	zinc plated	FCM2009-A1support Operatint unit	977 g
	Steel	zinc plated	Screws	50 g
	CuZn	nickel plated	Spacer bolts SW5,5/M3, 2 pcs.	4 g
	Steel	Zn galv., Zincor	FHA2003-A1 Rear cpl (Comfort)	9150 g
	Steel	zinc plated	FCM2011-A1 Support op. add-on	chart*
	Steel	zinc plated	TS35 Hat mounting rail L175	55 g
	Steel	zinc plated	FCM2014-A1 Support op. add-on (empty)	chart*
	Steel	zinc plated	FCM2010-A1support Operatint unit (Option)	chart*
	Steel	zinc plated	FHA2008-B1 Plan compartment (A3)	chart*
	Steel	zinc plated	FHA2009-C1 Plan comp. (A4)	chart*
	Steel	zinc plated	TS35 Hat mounting rail L320	chart*
	Others			SV 24V-150W Power sup. (150W)
PA, PBT, PVC, Cu-Alloy, Zn			Cable-kit to 2HU, 150W	chart*
PVC, Cu			Disconnection terminal 2,5 MM2 (TS35) 3L	13 g
PA6.6, Cu, CrNi			Terminal 2,5 MM2 (TS35)	8 g
PA6.6, Cu, CrNi			Protective terminal 2,5 MM2 (TS35) 3	11 g
PA6.6, Cu, CrNi			Cover plate orange (TS35)	4 g
PA6.6, Cu, CrNi			34pol. Cable	20 g
PBT GF, Be/Cu PVC			20 pitch Ribbon cable L=45 mm	chart*
Brass nickel plated			Kaba-cheese head type 8 (with accessories)	60 g
PA, PBT, PVC, Cu-Alloy, Zn			Cabel-Kit to FC2020-CC	16 g
PC, ABS			FLF socket type 13 white UL94-V0	68 g
			FP2001-A1 Power supply (70W)	570 g
PC-F, CuZn37			Power socket (EURO) 6.3A TS35	chart*
PVC, Cu			Braid AWG 18 UL	chart*
PA, PBT, PVC, Cu-Leg, Zn			Cable-kit to 1HU, 70W	chart*
PBT GF, Be/Cu, PVC			Final cramp	8 g
PBT GF, Be/Cu, PVC			Control wire LIYY	10 g
PA6.6, Cu, CrNi			Ribbon cable L=90	chart*
PVC, Cu			Ribbon cable L=840	chart*

PCB assembled	FR4	TBBA	SnAgCu	FCM2004-A1 PMI- & Mainboard	312 g
	FR4	TBBA	SnAgCu	PCB cpl. FTO2002-A1 LED Ind. (internal)	chart*
	FR4	TBBA	SnAgCu	FCI2002-A1 Periphery board (2-loop)	197 g
	FR4	TBBA	SnAgCu	Processorboard	18 g
	FR4	TBBA	SnAgCu	PCB cpl. FTO2004-C1 FBA terminal	chart*
	FR4	TBBA	SnAgCu	PCB ass. FTO2007-N1 EVAC-NL Operat. unit	chart*

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

*Variant parts list						
		FC2020 AA	FC2020 AE	FC2020 BB	FC2020 CC	FC2020 NA
Total weight of device		14'869 g	15'124 g	17'697 g	16'209 g	14'002 g
Isolation pad		----	166 g / 2 pcs	----	----	----
PCB cpl FTO2002-A1 LED Ind.		----	138 g / 2 pcs	----	----	----
Ribbon cable L=90		----	18 g	----	----	----
Ribbon cable L=840		----	50 g	----	----	----
FCM2011-A1 Support op. add-on		----	1025 g	----	----	----
FCM2014-A1 Support op. add-on (empty)		1145 g	----	----	----	----
FCM2010-A1support Operatint unit (Option)		----	----	----	942 g	942 g
20 pitch Ribbon cable L=45 mm		----	----	----	3 g	3 g
Cable-kit to 2HU, 150W		151 g	151 g	----	----	151 g
Control wire LIYY		10 g	10 g	----	----	10 g
Kaba-cheese head type 8 (with accessories)		----	----	----	60 g	----
Switching lever		----	----	----	3 g	----
Cabel-Kit to FC2020-CC		----	----	----	16 g	----
FLF socket type 13 white UL94-V0		----	----	----	68 g	----
SV 24V-150W Power sup. (150W)		1125 g	1125 g	----	----	1125 g
FP2001-A1 Power supply (70W)		----	----	570 g	570 g	----
Design foil to FCM		82 g	82 g	82 g	41 g / 1pc	82 g
Power socket (EURO) 6.3A TS35		----	----	92 g	----	92 g
Braid AWG 18 UL		----	----	16 g	20 g	16 g
Cable-kit to 1HU, 70W		----	----	105 g	105 g	----
FHA2008-B1 Plan compartment (A3)		----	----	5140 g	----	----
FHA2009-C1 Plan comp. (A4)		----	----	----	3470 g	----
PCB cpl. FTO2004-C1 FBA terminal		----	----	----	47 g	----
PCB ass. FTO2007-N1 EVAC-NL Operat. unit		----	----	----	----	70 g
TS35 Hat mounting rail L320		----	----	----	94 g	----
Rubber Keypad to FTO2004-C1		----	----	----	60 g	----

Special Components

Batteries

The batteries are furnished by the installer. Information on the environmental declaration is available from the installer or directly from the battery manufacturer.

Capacitors > 12 cm³ on PCB-Ass. to FP2001-A1 Power sup. (150 W) 2 pcs. (40 g)

Terminal block, PA on periphery board 5 pcs. (26 g)

Weights in brackets are already included in components declared under materials.

Disposal



The device is classified as waste electronic equipment in terms of the European Directive 2002/96/EC (WEEE) and should not be disposed of as unsorted municipal waste. The relevant national legal rules are to be adhered to. Regarding disposal, use the systems setup for collecting electronic waste. Observe all local and applicable laws.

Comments

Materials

FC2020 BB / FC2020 CC:

The device is free from substances banned by the Directive 2002/95/EC (RoHS):

Pb, Hg, Cr6+, PBB, PBDE: < 0.1 % by weight in homogeneous materials

Cd: < 0.01 % by weight in homogeneous materials

Environmental benefits:

- Serves for the early detection of fires and prevents the discharge of toxic gases.
- Easily removable. Disassembling is possible without any important effects regarding waste disposal.
- Very low energy consumption.

This declaration is for information purposes 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.

Siemens Switzerland 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.