



Environmental Product Declaration

Product	Type of equipment	Fire control panel	
	Designation	FC 2040 AA / AE / AG / FA / BB / CC / NA / FX (4-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	142 kWh/a, FX
	Maintenance	not necessary	
Risk of fire	Fire load	74 MJ, FC 2040 AA / FA / NA 84 MJ, FC2040 AG 78 MJ, FC2040 AE 79 MJ, FC2040 CC 51 MJ, FC2040 BB 26 MJ, FC2040 FX	
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	2 HU / 1 HU
	FC2040-FA / CC / FX	Static shielding bag	26 g
	Polyester, polyethylene		
	Notes on disposal	One-way, recyclable	

FC 2040 AA / AE / AG / FA / BB / CC / NA part list

Materials			Total weight device	chart*
Plastics	ABS+PC	halogenated	FHA2011-A2 Cover cap	645 g
	ABS+PC	halogenated	FHA2011-A1 Cover cap	chart*
	Q Silicone rubber		FCM2012-A1 Keypad	239 g
	Q Silicone rubber		FCM2013-F1 Keypad (France)	chart*
	Q Silicone rubber		Keypad to FTO2007-N1	chart*
	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*
	PA		cover plate orange (TS35)	4 g
	PA		Switching lever	chart*
	Metals	Steel	zinc plated	FCM2009-A1support Operation unit
Steel		zinc plated	FCM2011-A1 Support op. add-on	chart*
Steel		zinc plated	FCM2014-A1 Support op. add-on	chart*
Steel		zinc plated	FCM2010-A1support Operatint unit (Option)	chart*
Steel		Zn galv., Zincor	FHA2003-A1 Rear cpl (Comfort)	9150 g
Steel		zinc plated	Recessed lens head screw	53 g
CuZn		nickel plated	Spacer botts SW5,5/M3, 2 pcs.	4 g
Steel		zinc plated	TS35 Hat mounting rail L175	55 g
Brass		nickel plated	Kaba-cheese head type 8 (with accessories)	chart*
Steel		zinc plated	FHA2008-B1 Plan compartment (A3)	chart*
Steel		zinc plated	FHA2009-C1 Plan comp. (A4)	chart*
Others				SV 24V-150W Power sup. (150W)
	PA, PBT, PVC, Cu-Alloy, Zn		Cable-kit to 2HU, 150W	chart*
	PA6.6, Cu, CrNi		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
	PVC, Cu		Cabel-Kit to FC2020-CC	chart*
	PBT GF, Be/Cu, PVC		34 pitch ribbon cable	20 g
	PBT GF, Be/Cu, PVC		20 pitch ribbon cable	chart*
	PBT GF, Be/Cu, PVC		Ribbon cable L=45	chart*
	PBT GF, Be/Cu, PVC		Ribbon cable L=90	chart*
	PBT GF, Be/Cu, PVC	2 pcs.	Ribbon cable L= 650	chart*
	PBT GF, Be/Cu, PVC		Ribbon cable L=840	chart*
PVC, Cu		Braid AWG 18 U	chart*	

	PA.6.6, Cu, CrNi		2 pcs.	Final cramp	8 g
	PVC, Cu			Control wire LIYY	10 g
	PC, ABS, Cu			FLF socket type 13 white UL94-V0	chart*
	PC-F, CuZn37			Power socket (EURO) 6.3A TS35	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	FCI2004-A1 Periphery board (4-loop)	300 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*

FC 2040 FX part list

Materials				Total weight device	3'074 g
Plastics					
	Q Silicone rubber			FCM2013-F1 Keypad (France)	239 g
	Polyester foil			Design foil to FCM2001-F2	41 g
Metals					
	Steel		zinc plated	FCM2009-A1support Operation unit	977 g
	CuZn		nickel plated	Spacer botts SW5,5/M3, 2 pcs.	4 g
	Steel		zinc plated	Recessed lens head screw	40 g
Others					
	PBT GF, Be/Cu, PVC			SV 24V-150W Power sup. (150W)	1125 g
				34 pitch Ribbon cable L=620 mm	20 g
PCB assembled					
	FR4	TBBA	SnAgCu	FCI2004-A1 Periphery board (4-loop)	300 g
	FR4	TBBA	SnAgCu	Processorboard for FS20 (unpacked)	18 g
	FR4	TBBA	SnAgCu	FCM2004-A1 PMI- & Mainboard	312 g

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

*Variant parts list

	FC 2040 AA	FC 2040 AE	FC 2040 AG	FC 2040 FA	FC 2040 BB	FC 2040 CC	FC 2040 NA
Total weight of device	14'975 g	15'235 g	15'524 g	14'974 g	18'381 g	17'335 g	15'955 g
Isolation pad	----	166 g / 2 pcs	332 g / 4pcs	----	----	166 g / 2 pcs	332 g / 4pcs
PCB cpl. FTO2002-A1 LED Ind. (internal)	----	138 g / 2 pcs	276 g / 4 pcs	----	----	138 g / 2 pcs	276 g / 4 pcs
Ribbon cable L=90	----	18 g	18 g	----	----	18 g	18 g
Ribbon cable L= 650	----	----	43 g	----	----	----	43 g
Ribbon cable L=840	----	50 g	----	----	----	50 g	----
FCM2009-A1 support Operation unit	977 g	977 g	977 g	977 g	977 g	----	----
FCM2011-A1 Support op. add-on	----	1025 g	1025 g	----	----	----	----
FCM2014-A1 Support op. add-on	1145 g	----	----	1145 g	----	----	1145 g
FCM2010-A1 support Operatint unit (Option)	----	----	----	----	----	942 g / 2pcs	942 g/ 2pcs
Keypad to FTO2007- N1	----	----	----	----	----	----	95 g
FCM2012-A1 Keypad	239 g	239 g	239 g	----	----	----	----
FCM2013-F1 Keypad (France)	----	----	----	239 g	----	----	----
20 pitch ribbon cable	----	----	3 g	3 g	----	----	3 g
PCB cpl. FTO2004-C1 FBA terminal	----	----	----	----	----	47 g	----
Kaba-cheese head type 8 (with accessories)	----	----	----	----	----	70 g	----
Switching lever	----	----	----	----	----	3 g	----
Cabel-Kit to FC2020 CC	----	----	----	----	----	16 g	----
FLF socket type 13 white UL94-V0	----	----	----	----	----	68 g	----
FHA2011-A1 Cover cap	645 g	645 g	645 g	645 g	----	----	645 g
Control wire LIYY	10 g	10 g	10 g	10 g	10 g	----	----
Cable-kit to 2HU, 150W	151 g	151 g	151 g	151 g	151 g	----	151 g
Design foil to FCM	82 g	82 g	82 g	82 g	41 g	82 g	82 g
Power socket (EURO) 6.3A TS35	----	----	----	----	92 g	----	92 g
Braid AWG 18 U	----	----	----	----	18 g	18 g	18 g
FHA2008-B1 Plan compartment (A3)	----	----	----	----	5140 g	----	----
FHA2009-C1 Plan comp. (A4)	----	----	----	----	----	3470 g	----
PCB ass. FTO2007- N1 EVAC-NL Operat. unit	----	----	----	----	----	----	70 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 6.6/ PBT / St.	on periphery board	8 pcs.	(54 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

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

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