



GEMC FIRE STANDBY CALCULATION CHART

Date: 12-Jan-18
 Project Name: 62 Mellon Street
 Location: 62 Mellon Street Portland
 Prepared By: DMH
 Panel Model #: GEMC-FW-128KT

MODULE	DESCRIPTION	12V standby Current	12V Alarm Current (mA)	24V Standby Current mA	24V Alarm Current mA	QTY	TOTAL STANDBY CURRENT (mA)	TOTAL ALARM CURRENT (mA)
Fire Alarm Current Chart								
GEMC-CONTROL PANEL	Control Panel			96	96	1	96	96
	Fire Aux Relay Normally Energized			35	35			
GEMC-F8ZCPIM	Conventional (8)zone 2-wire fire input module.	120		72	72			
	# of Zones Used	5		3	24			
	Devices powered by GEMC-F8ZCPIM AUX PWR							
	Devices powered by GEMC-F8ZCPIM RST PWR							
GEMC-FK1	LCD Fire Keypad for GEM-C Combo System, Red	110		66	66	2	132	132
GEMC-RECV	Commercial Fire Wireless Receiver (Fire Bus Only)	70		42	42	1	42	42
GEMC-EZM8	8 Point Expansion Module	60		36	36			
GEMC-FPRINT	Printer Module	90		54	54			
GEMC-RM3008	Relay Output Module (Fire Bus Only)	22		13	13			
	# of Relays Normally Energized	12		7				
	# of Relays Energized on Alarm	12		-	7			
GEMC-NL-MOD	Internet Reporting Module	85		51	51			
GEMC-RS232	RS232 Adaptor	60		36	36			
GEMC-OUT8	PGM Output Module	35		21	21			
GEMC-FW-SLC	Addressable SLC Fire Module			70	140			
GEMC-FSLC-SMK	Addressable SLC Photo Smoke Detector			0.68	1.40			
FWC-FSLC-HEAT	Addressable SLC Heat Detector			0.61	0.88			
FWC-FSLC-DUCT	Addressable SLC Photo Duct Smoke Detector			10.68	0.95			
FWC-FSLC-EZM2	Addressable SLC 2 Zone Conv. Input Module			1.05	1.26			
FWC-FSLC-EZM1	Addressable SLC Single Input Conv. Input Module.			0.96	1.16			
FWC-FSLC-CZM	Addressable SLC Conv Single Module			2.17	1.26			
FWC-FSLC-RM2	Addressable SLC Dual Relay Module			0.68	0.70			
FWC-FSLC-ISO	Addressable SLC Fire Isolation Module			0.47	0.47			
FWC-FSLC-SOM1	Addressable SLC Fire Supervised Output Module			1.39	0.28			
FWC-FSLC-PULL	Addressable SLC Fire Pull Station			0.96	1.14	7	7	8
GEMC-NAC7S	Remote NAC Extender.	8		5	5			
GEMC-12V2APS-CF	Remote Supervised 12VDC Power Supply	8		5	5			
GEMC-24VR	Add On 24V Regulator							
NAC A	On Board NAC Circuit A			N/A	1	1		1
NAC B	On Board NAC Circuit B			N/A	1	1		1
NAC C	On Board NAC Circuit C			N/A				
NAC D (set to 24V)	On Board NAC Circuit D			N/A				
NAC D (set to 12V)	On Board NAC Circuit D			N/A				
Mother Board AUX PWR								
Mother Board RLY PWR	(only if configured for wet operation)							

FIRE STANDBY CURRENT DRAW	277 mA
REQUIRED FIRE STANDBY TIME	24 Hours
REQUIRED FIRE STANDBY BATTERY CAPACITY	6.6 AH
TOTAL FIRE ALARM CURRENT DRAW	280 mA
REQUIRED FIRE ALARM STANDBY TIME	5 Min
REQUIRED FIRE ALARM BATTERY CAPACITY	0.0 AH
BATTERY DERATING FACTOR	20 %
TOTAL REQUIRED STANDBY BATTERY CAPACITY	8.3 AH
INSTALLED BATTERY CAPACITY	QTY: 4 AH: 7 28.0 AH