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IFP-2000/RPS-2000 Calculations
Version 08.12

Global Project Values:

Project Name: AC Hotel
Project ID:
Prepared By: Kerry Clark
Date: 9/15/2017

Standby Hours: 24
Alarm Mins: 5
Derating Factor: 1.2
Voltage Drop Warning
Threshold %: 10

Panel ID: IFP-2000/RPS-2000
Location: Main Panel First Floor

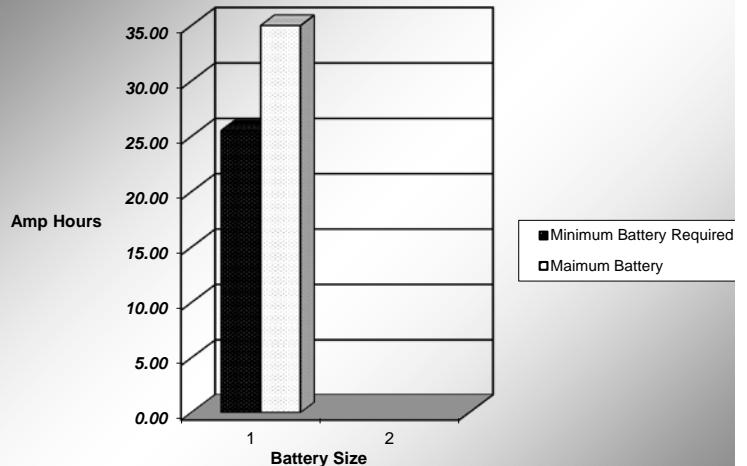
Model: IFP-2000 Add. Fire Alarm Control Panel
Volts: 24 VDC

Max NAC Current: 3.0 Amps
Max Panel Current: 9.0 Amps

Part.#	Description	Qty	Current Draw		Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
			Standby	Alarm						
2000	IFP/RPS-2000 Panel		0.290	0.530						
IDP	Photo, Photo-T	325	0.088	0.088						
IDP	Ion		0.000	0.000						
IDP	Heat, Heat-HT	4	0.001	0.001						
IDP	Beam, Beam-T		0.000	0.000						
DNR	Duct housing	2	0.000	0.000						
IDP	Acclimate, Heat-ROR		0.000	0.000						
IDP	Control	19	0.006	0.006						
IDP	Control-6		0.000	0.000						
IDP	Monitor, Minimon		0.000	0.000						
IDP	Monitor-2	35	0.011	0.011						
IDP	Monitor-10		0.000	0.000						
IDP	Pull-SA, Pull-DA	20	0.070	0.070						
IDP	Relay	15	0.005	0.005						
IDP	Relay-6		0.000	0.000						
IDP	Zone		0.000	0.000						
IDP	Zone-6		0.000	0.000						
IDP	Iso (Isolator Module)	3	0.001	0.001						
SSB224BI	Isolator Base		0.000	0.000						
B200SR	Sounder Base	187	0.131	0.131						
SSB224RB	Relay Base		0.000	0.000						
RTS151	Magnetic Remote Test		0.000	0.000						
RTS151KEY	Key Activated Test		0.000	0.000						
RA100Z	Remote LED		0.000	0.000						
5815XL	SLC Expander	2	0.110	0.110						
RA-2000	LCD Remote Annunc	2	0.050	0.100						
5824	Serial/Parallel Module		0.000	0.000						
5496	Power Expander	10	0.100	0.100						
RPS-1000	Power Expander		0.000	0.000						
5865-4	LED Annunciator (4G)		0.000	0.000						
5865-3	LED Annunciator (3G)		0.000	0.000						
5880	LED Driver Module		0.000	0.000						
5883	Relay Module		0.000	0.000						
IFP-RPT-UTP	Copper Wire Repeater		0.000	0.000						
IFP-RPT-FO	Fiber Optic Repeater		0.000	0.000						

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Battery Graph



PGM-I/O #1	Notification Appl Circuit	0.000	2.770	#12 Solid	1.59	0.00	20.40	0.00%
PGM-I/O #2	Notification Appl Circuit	0.000	2.770	#12 Solid	1.59	0.00	20.40	0.00%
PGM-I/O #3	Notification Appl Circuit	0.000	0.301	#12 Solid	1.59	0.00	20.40	0.00%
PGM-I/O #4	Notification Appl Circuit	0.000	0.000	#12 Solid	1.59	0.00	20.40	0.00%
PGM-I/O #5	Notification Appl Circuit	0.000	0.000	#12 Solid	1.59	0.00	20.40	0.00%
PGM-I/O #6	Notification Appl Circuit	0.000	0.000	#12 Solid	1.59	0.00	20.40	0.00%
PGM-I/O #7	Notification Appl Circuit	0.000	0.000	#12 Solid	1.59	0.00	20.40	0.00%
PGM-I/O #8	Aux Power Circuit	0.000	0.000	#12 Solid	1.59	0.00	20.40	0.00%

Total Standby Current (Amps)		0.862	6.993	Total Alarm Current (Amps)	
Standby Time In Hours		24	0.083	Alarm Time In Minutes / 60 (5 Mins)	
Total Standby AH Required		20.683	0.583	Total Alarm AH Required	
Total Combined AH Required		21.27			
Multiply By The Derating Factor		1.20			
Minimum Battery AmpHours Required		25.52			

Command Shortcuts

Configure Circuits

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