Farenhyt

IFP-2000/RPS-2000 Calculations
Version 11.03.09

Global Project Values:

Project Name:	WASF PAVILION ELEV MOD	Standby Hours:	24
Project ID:	KL5758	Alarm Mins:	5
Prepared By:	WSFP	Derating Factor:	1.2
Date:	3/18/2025	Voltage Drop Warning Threshold % :	10

Panel ID: IFP-2000/RPS-2000
Location: ELECTRICAL ROOM
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 Standby	Current Draw Alarm	Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
2000	IFP/RPS-2000 Panel	1	0.290	0.530						
SD500-AIM	Addr. Input Module	20	0.011	0.011						
SD500-MIM	Mini-Input Module		0.000	0.000						
SD500-ARM	Addr. Relay Module	3	0.002	0.002						
SD500-PS	Addr. Pull Station	1	0.001	0.001						
SD500-ANM	Addr. Notification Mod.		0.000	0.000						
SD500-LED	Addr. LED Module		0.000	0.000						
SD500-SDM	Addr. Smoke Det. Mod.		0.000	0.000						
SD505-AIS	Addr. Ion Smoke Det.		0.000	0.000						
SD505-APS	Addr. Photo Smoke Det.	4	0.002	0.002						
SD505-AHS	Addr. Heat Detector	71	0.039	0.039						
SD505-DUCT	Addr. Duct Detector		0.000	0.000						
SD505-DUCTR	Addr. Duct w/Relay		0.000	0.000						
SD505-6IB	Addr. Det. Iso. Base		0.000	0.000						
SD505-6RB	Addr. Det. Relay Base		0.000	0.000						
SD505-6SB	Addr. Det. Sounder Base		0.000	0.000						
SD500-LIM	Line Isolator Module		0.000	0.000						
5815XL	SLC Expander		0.000	0.000						
RA-2000	LCD Remote Annunc	1	0.025	0.050						
5824	Serial/Parallel Module		0.000	0.000						
5496	Power Expander		0.000	0.000						
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						
PGM-I/O #1	Notification Appl Circuit		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%
PGM-I/O #2	Notification Appl Circuit		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%
PGM-I/O #3	Notification Appl Circuit		0.000	0.000	#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	Notification Appl Circuit		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%
	Total Standby Current (Amps)		0.369	0.634	Total Alarm Current (Amps)					
	Standby Time In Hours		24	0.083	Alarm Time In Minutes / 60		(5 Mins)			
	Total Standby AH Required		8.867	0.053	Total Alarm AH Required					

N/A

Total Combined AH Required	8.92
Multiply By The Derating Factor	1.20
Minimum Battery AmpHours Required	**10.70**

Command Shortcuts

Configure Circuits

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