

HYATT PLACE FACP 4100es FACP						
Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4100-9111	1	4100 CONFIG DOMESTIC 120V	0.3730	0.3730	0.4700	0.4700
4100-5101	1	EXPANSION PWR SUPPLY (XPS) - 120VAC 60HZ	0.0500	0.0500	0.0500	0.0500
4100-5115	1	EXPANSION NAC MODULE - 3 NACS	0.0250	0.0250	0.0250	0.0250
4100-6031	1	CITY MODULE W/DISCONNECT	0.0200	0.0200	0.0360	0.0360
4100-6038	1	DUAL RS-232 IF CARD	0.1320	0.1320	0.1320	0.1320
4100-3101	1	IDNET MODULE, UP TO 250 POINTS	0.0750	0.0750	0.1150	0.1150
4100-3206	2	8 RELAYS - 3 AMP	0.0150	0.0300	0.1900	0.3800
4100-0632	1	UTILITY BLOC, 16 TERMINALS	0.0000	0.0000	0.0000	0.0000
4100-2163	1	INDICATOR ONLY, 3 BAY GLASS DOOR	0.0000	0.0000	0.0000	0.0000
4100-1279	8	2" BLANK DISPLAY MODULE	0.0000	0.0000	0.0000	0.0000
4100-0634	1	POWER DISTRIBUTION MODULE 120V	0.0000	0.0000	0.0000	0.0000
4100-2300	1	EXPANSION BAY (PHASE 1D ONLY)	0.0000	0.0000	0.0000	0.0000
4100-2302	1	8 SLOT EXP BAY FILLER PANEL	0.0000	0.0000	0.0000	0.0000
4100-6052	1	EVENT REPORTING DAQT	0.0300	0.0300	0.0400	0.0400
4100-0650	1	BATTERY SHELF	0.0000	0.0000	0.0000	0.0000
Panel Totals			0.7350	0.7350	1.2480	1.2480

IDNet Addressable Devices (SLC)						
4099-9001	17	IDNET SINGLE ACTION PULL STATION	**	0.0000	0.0000	0.0000
4099-9001	74	IDNET SUPERVISED IAM	**	0.0000	0.0000	0.0000
4099-9002	15	IDNET RELAY IAM	**	0.0000	0.0000	0.0000
4099-9714	278	TRUEALARM PHOTO SMOKE SENSOR	**	0.0000	0.0000	0.0000
4099-9733	8	TRUEALARM HEAT SENSOR	**	0.0000	0.0000	0.0000
4099-9756	4	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT	**	0.0000	0.0000	0.0000
4099-9792	133	TRUEALARM SENSOR BASE	**	0.0000	0.0000	0.0000
4099-9794	144	TRUEALARM SENSOR SOUNDER BASE	**	0.0000	0.0000	0.0000
4099-9798	9	SSD SOUNDER BASE W/ CO MODULE	**	0.0000	0.0000	0.0000

Miscellaneous Peripheral Devices That May Require System Power						
4098-9843	4	ENCAPSULATED RELAY PAM-SD	0.0000	0.0000	0.0150	0.0600
4098-9756	4	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT	0.0030	0.0120	0.0150	0.0600
4603-9101	2	SERIAL LCD ANNUNCIATOR	0.0650	0.1300	0.1400	0.2800
2098-9021	5	ENCAPSULATED RELAY PAM-1	0.0000	0.0000	0.0150	0.0750
2098-9806	4	REMOTE TEST STATION W/ LED AND KEY SWITCH	0.0000	0.0000	0.0000	0.0000

Notification Appliances						
4098-9794	19	TRUEALARM SENSOR SOUNDER BASE	**	0.0000	0.0000	0.0200
4098-9798	9	SSD SOUNDER BASE W/ CO MODULE	** CO+	0.0000	0.0000	0.1530
4901-9820	2	TRUEALERT HORN, NON-ADDRESSABLE	**	0.0000	0.0000	0.0220
4905-9835	1	TEMPORAL CODE 4 MODULE	TEMPD	0.0002	0.0002	0.0150
4906-9101	5	V/O MC NON-ADDRESS, RED, WALL	15	0.0000	0.0000	0.0600
4906-9109	1	HICD VO MC NONADDRESS RED WALL	177	0.0000	0.0000	0.3900
4906-9127	5	A/V MC NON-ADDRESS, RED, WALL	15	0.0000	0.0000	0.0750
4906-9127	50	A/V MC NON-ADDRESS, RED, WALL	30	0.0000	0.0000	0.1160
4906-9127	2	A/V MC NON-ADDRESS, RED, WALL	75	0.0000	0.0000	0.2210
4906-9131	2	WP MC A/V NON-ADDR WALL MT RED	WP75	0.0000	0.0000	0.2770
Peripheral Totals				0.1422		8.9280
RUI Totals			2	0.0070		0.0070
Address Totals			401 Addresses	0.3208		0.4000
Total Standby				1.2050		10.5830
Total Alarm						10.5830

* Current draw included under "Device Addresses Used" (See "Additional Current Draws")
 1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.
 2. Backup Amplifier assumes Main Amplifier alarm current on failure.

Battery Set #1 (Cabinet/Charger #1)						
Select ALL Power Supplies on this battery set:						
SPS-1						4.2210
XPS-2						0.1550
Sub Total						10.1760
Additional Current Draws:						
RUI Connected Peripheral Devices	2	x 0.0035	=	0.0070	x 0.0035	= 0.0070
MAPNET/IDnet Device Addresses ordered / used	401	x 0.000800	=	0.3208	x 0.000998	= 0.4000
Sub Total				1.2050		10.5830
Spore addressable point capacity 0% 0 x 0.0008 = 0.0000 x 0.000998 = 0.0000						
Total				1.2050		10.5830
Standby Time = 24 Hrs x 1.2050 = 28.9195 Standby Ah						
Alarm Time = 5 Min 0.08333 x 10.583 = 0.8819 Alarm Ah						
Additional Spare Capacity = 0% + 0.0000 = 0.0000						
Battery Discharge Factor = 20% + 5.9603 = 35.7617						
Minimum Battery Required 2081-9296 50AH (2x)						
Battery Supplied 2081-9296 50AH (2x)						

HYATT PLACE NAC 2 TEL DAT 525 4009 NAC						
Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC	0.0850	0.0850	0.1850	0.1850
4009-9807	1	NAC CARD, APT, IDNET	0.0400	0.0400	0.0400	0.0400
Panel Totals			0.1250	0.1250	0.2250	0.2250
Notification Appliances						
4098-9794	50	TRUEALARM SENSOR SOUNDER BASE	**	0.0000	0.0000	0.0200
4901-9820	4	TRUEALERT HORN, NON-ADDRESSABLE	**	0.0000	0.0000	0.0220
4906-9101	2	V/O MC NON-ADDRESS, RED, WALL	15	0.0000	0.0000	0.0600
4906-9109	2	HICD VO MC NONADDRESS RED WALL	177	0.0000	0.0000	0.3900
4906-9127	22	A/V MC NON-ADDRESS, RED, WALL	30	0.0000	0.0000	0.1160
Peripheral Totals			0.0000	0.0000	0.4540	4.5400
Total Standby			0.1250	0.1250		4.7650
Total Alarm						4.7650

* Current draw included under "Device Addresses Used" (See "Additional Current Draws")
 1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.
 2. Backup Amplifier assumes Main Amplifier alarm current on failure.

Battery Set #1 (Cabinet/Charger #1)						
Select ALL Power Supplies on this battery set:						
4009						0.1250
Sub Total						0.1250
Spore addressable point capacity 0% 0 x 0 = 0.0000						
Total						0.1250
Standby Time = 24 Hrs x 0.1250 = 3.0000 Standby Ah						
Alarm Time = 5 Min 0.08333 x 4.765 = 0.3971 Alarm Ah						
Additional Spare Capacity = 0% + 0.0000 = 0.0000						
Battery Discharge Factor = 20% + 0.6794 = 4.0765						
Minimum Battery Required 2081-9272 6.2AH (2x)						
Battery Supplied 2081-9272 6.2AH (2x)						

HYATT PLACE FACP 4100es FACP VOLTAGE DROPS														
WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius														
Power Supply	Panel	Plan	Dist. (ft)	Wire Gauge	Wire Res. / Ft. (ohm)	Total Wire Res. (ohm)	V. Drop @ End (V)	Volt Drop @ End (V)	% Volt Drop	Min Voltage	Max Voltage	Min Distance	Max Distance	Panel
NOTIFICATION CIRCUIT DESCRIPTION														
CO-SOUNDER BASES ALL FLOORS														
SPS-1	V1	405	14ga	0.0031	0.188	0.418	19.082	2.14%	18vdc	14.54 FL				
SPS-1	V2	349	14ga	0.0031	1.228	2.631	16.869	13.49%	16vdc	464 FL				
SPS-1	V3	335	14ga	0.0031	1.647	3.388	16.112	17.37%	16vdc	346 FL				
XPS-2	V4	357	14ga	0.0031	1.497	3.281	16.219	16.83%	16vdc	381 FL				
XPS-2	V5	373	14ga	0.0031	0.950	2.176	17.324	11.16%	16vdc	600 FL				
XPS-2	V6	257	14ga	0.0031	0.450	0.710	18.795	3.64%	16vdc	1267 FL				
XPS-2	V7	356	14ga	0.0031	1.351	2.953	16.547	15.14%	16vdc	422 FL				
XPS-2	V8	378	14ga	0.0031	0.782	1.815	17.685	9.31%	16vdc	729 FL				
XPS-2	V9	476	14ga	0.0031	0.380	1.111	18.389	5.70%	16vdc	643 FL				

NOTE:
 LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THAT THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, CONTACT YOUR LOCAL SIMPLEXGRINNELL DISTRICT OFFICE.

HYATT PLACE NAC 1 3RD FL TEL DAT 325 4009 NAC						
Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC	0.0850	0.0850	0.1850	0.1850
4009-9807	1	NAC CARD, APT, IDNET	0.0400	0.0400	0.0400	0.0400
Panel Totals			0.1250	0.1250	0.2250	0.2250
Notification Appliances						
4098-9794	50	TRUEALARM SENSOR SOUNDER BASE	**	0.0000	0.0000	0.0200
4901-9820	4	TRUEALERT HORN, NON-ADDRESSABLE	**	0.0000	0.0000	0.0220
4906-9101	2	V/O MC NON-ADDRESS, RED, WALL	15	0.0000	0.0000	0.0600
4906-9109	2	HICD VO MC NONADDRESS RED WALL	177	0.0000	0.0000	0.3900
4906-9127	22	A/V MC NON-ADDRESS, RED, WALL	30	0.0000	0.0000	0.1160
Peripheral Totals			0.0000	0.0000	0.4540	4.5400
Total Standby			0.1250	0.1250		4.7650
Total Alarm						4.7650

* Current draw included under "Device Addresses Used" (See "Additional Current Draws")
 1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.
 2. Backup Amplifier assumes Main Amplifier alarm current on failure.

Battery Set #1 (Cabinet/Charger #1)						
Select ALL Power Supplies on this battery set:						
4009						0.1250
Sub Total						0.1250
Spore addressable point capacity 0% 0 x 0 = 0.0000						
Total						0.1250
Standby Time = 24 Hrs x 0.1250 = 3.0000 Standby Ah						
Alarm Time = 5 Min 0.08333 x 4.765 = 0.3971 Alarm Ah						
Additional Spare Capacity = 0% + 0.0000 = 0.0000						
Battery Discharge Factor = 20% + 0.6794 = 4.0765						
Minimum Battery Required 2081-9272 6.2AH (2x)						
Battery Supplied 2081-9272 6.2AH (2x)						

HYATT PLACE NAC 1 3RD FL TEL DAT 325 4009 NAC VOLTAGE DROPS														
WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius														
Power Supply	Panel	Plan	Dist. (ft)	Wire Gauge	Wire Res. / Ft. (ohm)	Total Wire Res. (ohm)	V. Drop @ End (V)	Volt Drop @ End (V)	% Volt Drop	Min Voltage	Max Voltage	Min Distance	Max Distance	Panel
NOTIFICATION CIRCUIT DESCRIPTION														
3RD FL A														
4009	SIG1	NAC1V1	328	14ga	0.0031	0.834	1.680	17.820	8.61%	16vdc	683 FL			
4009	SIG2	NAC1V2	256	14ga	0.0031	0.486	0.764	18.736	3.92%	16vdc	1173 FL			
4009	SIG3	NAC1V3	441	14ga	0.0031	0.500	1.354	18.146	6.94%	16vdc	489 FL			
4009	SIG4	NAC1V4	292	14ga	0.0031	0.450	0.807	18.693	4.14%	16vdc	1267 FL			
4009	SIG5	NAC1V5	348	14ga	0.0031	0.834	1.782	17.718	9.14%	16vdc	683 FL			
4009	SIG6	NAC1V6	276	14ga	0.0031	0.486	0.824	18.676	4.22%	16vdc	1173 FL			
4009	SIG7	NAC1V7	461	14ga	0.0031	0.500	1.415	18.085	7.26%	16vdc	489 FL			
4009	SIG8	NAC1V8	312	14ga	0.0031	0.450	0.862	18.638	4.42%	16vdc	1267 FL			

NOTE:
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HYATT PLACE NAC 2 TEL DAT 525 4009 NAC VOLTAGE DROPS														
WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius														
Power Supply	Panel	Plan	Dist. (ft)	Wire Gauge	Wire Res. / Ft. (ohm)	Total Wire Res. (ohm)	V. Drop @ End (V)	Volt Drop @ End (V)	% Volt Drop	Min Voltage	Max Voltage	Min Distance	Max Distance	Panel
NOTIFICATION CIR														