

Franklin Towers - 4100ES FACP - Battery Backup Calculation				Standby	Total	Alarm	Total
Module	Qty	Description	Current	Standby	Current	Alarm	
Panel Equipment							
4100-9311	1	4100 CONFG. DOMESTIC 120V	*	0.4250	0.4250	0.7350	0.7350
4100-9634	2	POWER DISTRIBUTION MODULE 120V		0.0000	0.0000	0.0000	0.0000
4100-9636	1	BOX TO BOX HARNESS KIT		0.0000	0.0000	0.0000	0.0000
4100-9637	1	AUDIO BOX TO BOX HARNESS KIT		0.0000	0.0000	0.0000	0.0000
4100-9650	1	BATTERY SHELF		0.0000	0.0000	0.0000	0.0000
4100-1241	1	MESSAGE EXPANSION BOARD - 8 MINUTES		0.0020	0.0020	0.0170	0.0170
4100-1246	4	FLEX 50 CLASS A ADAPTER		0.0010	0.0040	0.0030	0.1200
4100-1255	1	3-8 CHANNEL AUDIO OPERATOR INTERFACE		0.0000	0.0000	0.0240	0.0240
4100-1279	11	2" BLANK DISPLAY MODULE		0.0000	0.0000	0.0000	0.0000
4100-1280	3	8 SWITCH, 8 RED LED MODULE		0.0000	0.0000	0.0240	0.0270
4100-1288	1	64/64 LEAD/SWITCH CONTROLLER		0.0000	0.0020	0.0000	0.0000
4100-1294	1	LED/SWITCH SLIDE-IN LABEL KIT		0.0000	0.0000	0.0000	0.0000
4100-1327	4	DIGITAL FLEX 50W AMP W/3 NACS - 70V		0.0850	0.3400	2.2700	5.9800
4100-2300	4	EXPANSION BAY (PHASE 10 ONLY)		0.0000	0.0000	0.0000	0.0000
4100-2320	2	AUDIO EXPANSION BAY KIT		0.0000	0.0000	0.0000	0.0000
4100-3112	1	IDNet2+2 MODULE - UP TO 250 DEVICES 4 ISOLATED LOOPS	*	0.0500	0.0000	0.1000	0.1000
4100-3206	1	8 RELAYS - 3 AMP		0.0150	0.0150	0.1900	0.1900
4100-5101	2	EXPANSION PWR SUPPLY (XPS) - 120VAC 60HZ		0.0500	0.1000	0.0500	0.1000
4100-5128	2	EXTERNAL BATTERY POWER		0.0000	0.0000	0.0000	0.0000
4100-5325	2	ENHANCED POWER SUPPLY, 3 CHANNELS, 120V		0.1250	0.2500	0.2200	0.4400
4100-6080	1	SERIAL DACT SIDE MOUNT		0.0300	0.0300	0.0400	0.0400
4100-6103	9	DUAL CLASS A ADDRESSABLE INTERFACE, DCAI		0.0083	0.0747	0.0185	0.1665
4100-9621	1	BASIC AUDIO WITH MICROPHONE - DIGITAL		0.0750	0.0000	0.0820	0.0820
Panel Totals					1.3857		11.1865
IDNet Addressable Devices (SLC)							
4099-9004	19	ADDRESSABLE SINGLE ACTION MANUAL STATION	*				
4090-9001	37	IDNET SUPERVISED IAM	*				
4090-9002	1	IDNET RELAY IAM	*				
4098-9714	136	TRUEALARM PHOTO SMOKE SENSOR					
4098-9734	3	HIGH TEMP HEAT SENSOR	0				
4098-9792	115	TRUEALARM SENSOR BASE	*				
4098-9771	24	TRUEALARM SOUNDER BASE W/ CO MODULE	*				
Miscellaneous Peripheral Devices That Require (Additional) System Power							
4603-9101	1	SERIAL LCD ANNUNCIATOR		0.0650	0.0650	0.1400	0.1400
4098-9771	22	TRUEALARM SOUNDER BASE W/ CO MODULE		0.0000	0.0000	0.0170	0.3740
Notification Appliances							
Setting							
4906-9204	1	ADDRESSABLE CEILING MNT MC V/O WHITE	75	0.0008	0.0008	0.1800	0.1800
4906-9256	171	ADDRESSABLE CEILING MNT S/V WHITE, ALERT	15	0.0008	0.1368	0.0600	10.2600
4906-9256	2	ADDRESSABLE CEILING MNT S/V WHITE, ALERT	30	0.0008	0.0016	0.0920	0.1840
Peripheral Totals				0.2042			11.1380
Added Current for EPS Conversion of 24 to 29 Volt IDNet Devices				0.0000			0.0669
RUI Totals				1	0.0035		0.0035
Address Totals				196	0.1568		0.1560
System Totals:					1.7502		Alarm 28.5809
* Device Address current draw included below (See Additional Current Draws):							
2. Backup Amplifier assumes Main Amplifier alarm current on failure.							
Battery Set #1 (Cabinet/Charger #1)				Standby	Standby	Alarm	Alarm
Select ALL Power Supplies on this battery set:				Current	Total	Current	Total
EPS-1					0.7453		4.5395
EPS-2					0.2003		4.2425
EPS-3					0.2003		4.2425
XPS-4					0.2220		4.6500
XPS-5					0.2220		4.6500
Sub Total					1.5899		22.2425
Additional Current Draws							
IDNet Current Boost for 29vdc Regulated Output **					0.0000		6.0569
RUI Connected Peripheral Devices				1	x0.0035		x0.0035
MANPNET/IDNet Device Address Communication Current				196	x0.000800		x0.1568
Sub Total					1.7502		28.5809
Spare addressable point capacity				0%	0	x0.0008	x0.0001
Total					1.7502		28.5809
Standby Time = 24 Hrs x 1.7502 = 42.0048 Standby Ah							
Alarm Time = 15 Min 0.25 x 28.5809 = 7.1452 Alarm Ah							
Additional Spare Battery Capacity = 0%					0.0000		49.1500
Battery Discharge Factor = 20%					9.8300		
Minimum Battery Required PW-PS12750U 75AH (2x)							\$8.9800
Battery Supplied PW-PS12750U 75AH (2x)							

IDNET CHANNEL M1			ADDRESSES IN USE: 196 (78.4%) SPARE ADDRESSES: 54 (21.6%)					SWITCH SETTINGS											
Address	Device Type	Point Type	Location Description	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
M1-1(1)	PHOTO	SMOKE	BASEMENT - LAUNDRY	1-1	X														ON
M1-2(1)	PHOTO	SMOKE	BASEMENT - LAUNDRY	1-2	X														ON
M1-3(1)	PHOTO	SMOKE	BASEMENT - AT&T EQUIPMENT	1-3	X														ON
M1-4(1)	PHOTO	SMOKE	BASEMENT - AT&T EQUIPMENT	1-4	X														ON
M1-5(1)	PHOTO	SMOKE	BASEMENT - CRAWL SPACE	1-5	X														ON
M1-6(1)	PHOTO	SMOKE	BASEMENT - CRAWL SPACE	1-6	X														ON
M1-7(1)	IAM	TROUBLE	BASEMENT - SERVICE AREA FIRE PUMP TRBL	1-7	X														ON
M1-8(1)	IAM	TROUBLE	BASEMENT - SERVICE AREA FIRE PUMP ALARM	1-8	X														ON
M1-9(1)	PHOTO	SMOKE	BASEMENT - SERVICE AREA	1-9	X														ON
M1-10(1)	IAM	SO	BASEMENT - SERVICE AREA TAMPER	1-10	X														ON
M1-11(1)	IAM	SO	BASEMENT - SERVICE AREA TAMPER	1-11	X														ON
M1-12(1)	PHOTO	SMOKE	BASEMENT - SERVICE AREA	1-12	X														ON
M1-13(1)	IAM	TROUBLE	BASEMENT - SERVICE AREA RMT TRNSMTR	1-13	X														ON
M1-14(1)	PHOTO	SMOKE	BASEMENT - GENERATOR ROOM	1-14	X														ON
M1-15(1)	PHOTO	SMOKE	BASEMENT - GENERATOR ROOM	1-15	X														ON
M1-16(1)	PHOTO	SMOKE	BASEMENT - TRANSFORMER VAULT	1-16	X														ON
M1-17(1)	PHOTO	SMOKE	BASEMENT - POSTAL SERVICE ACCESS ROOM	1-17	X														ON
M1-18(1)	PHOTO	SMOKE	BASEMENT - MAIL ROOM	1-18	X														ON
M1-19(1)	MCOPS	UTILITY	BASEMENT - ELEVATOR LOBBY	1-19	X														ON
M1-20(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-20	X														ON
M1-21(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-21	X														ON
M1-22(1)	PHOTO	SMOKE	BASEMENT - STORAGE	1-22	X														ON
M1-23(1)	PHOTO	SMOKE	BASEMENT - STORAGE	1-23	X														ON
M1-24(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-24	X														ON
M1-25(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-25	X														ON
M1-26(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-26	X														ON
M1-27(1)	MCOPS	UTILITY	BASEMENT - MAINT	1-27	X														ON
M1-28(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-28	X														ON
M1-29(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-29	X														ON
M1-30(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-30	X														ON
M1-31(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-31	X														ON
M1-32(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-32	X														ON
M1-33(1)	PHOTO	SMOKE	BASEMENT - INCINERATOR	1-33	X														ON
M1-34(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-34	X														ON
M1-35(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-35	X														ON
M1-36(1)	ADRPUL	PULL	BASEMENT - WEST WING	1-36	X														ON
M1-37(1)	PHOTO	SMOKE	BASEMENT - WEST WING	1-37	X														ON
M1-38(1)	ADRPUL	PULL	BASEMENT - WEST WING	1-38	X														ON
M1-39(1)	HEAT	HEAT	BASEMENT - BOILER ROOM	1-39	X														ON
M1-40(1)	HEAT	HEAT	BASEMENT - BOILER ROOM	1-40	X														ON
M1-41(1)	ADRPUL	PULL	BASEMENT - BOILER ROOM	1-41	X														ON
M1-42(1)	MCOPS	UTILITY	BASEMENT - BOILER ROOM	1-42	X														ON
M1-43(1)	HEAT	HEAT	BASEMENT - BOILER ROOM	1-43	X														ON
M1-44(1)	PHOTO	SMOKE	BASEMENT - EAST WING	1-44	X														ON
M1-45(1)	PHOTO	SMOKE	FIRST FLR - FIRE COMMAND	1-45	X														ON
M1-46(1)	IAM	TROUBLE	FIRST FLR - FIRE COMMAND GEN TRBL	1-46	X														ON
M1-47(1)	IAM	TROUBLE	FIRST FLR - FIRE COMMAND GEN ALARM	1-47	X														ON
M1-48(1)	IAM	TROUBLE	BASEMENT - SERVICE AREA FIRE PUMP PH5 REV	1-48	X														ON
M1-49(1)	IAM	TROUBLE	FIRST FLR - KITCHEN KNOX TMPR	1-49	X														ON
M1-50	SPARE			1-50	X														ON
M1-51	SPARE			1-51	X														ON
M1-52	SPARE			1-52	X														ON
M1-53	SPARE			1-53	X														ON
M1-54	SPARE			1-54	X														ON
M1-55	SPARE			1-55	X														ON
M1-56	SPARE			1-56	X														ON
M1-57(2)	PHOTO	SMOKE	FIRST FLR - EAST WING	1-57	X														ON
M1-58(2)	PHOTO	SMOKE	FIRST FLR - EAST WING	1-58	X														ON
M1-59(2)	PHOTO	SMOKE	FIRST FLR - EAST WING	1-59	X														ON
M1-60(2)	PHOTO	SMOKE	FIRST FLR - EAST WING	1-60	X														ON
M1-61(2)	PHOTO	SMOKE	FIRST FLR - EAST WING	1-61	X														ON
M1-62(2)	PHOTO	SMOKE	FIRST FLR - FIRE SUPPRESSION	1-62	X														ON
M1-63(2)	IAM	WATER	FIRST FLR - EAST WING	1-63	X														ON
M1-64(2)	IAM	SO	FIRST FLR - EAST WING TMPR	1-64	X														ON
M1-65(2)	ADRPUL	PULL	FIRST FLR - EAST WING	1-65	X														ON
M1-66(2)	PHOTO	SMOKE	FIRST FLR - EAST WING	1-66	X														