

IDNET CHANNEL	N1-M1	Address	Device Type	Point Type	Location Description	SWITCH SETTINGS							
						1	2	3	4	5	6	7	8
N1-M1-231	RAM	DHOLDER	ECOMANE 2ND LEVEL			x	x	x	x	x	x	x	x
N1-M1-232	PHOTO	SMOKE	ECOMANE 2ND LEVEL			x	x	x	x	x	x	x	x
N1-M1-233	PHOTO	SMOKE	ECOMANE 2ND LEVEL			x	x	x	x	x	x	x	x

ecoMaine 4100ES NODE1 FACP 4100es FACP					
Module	Qty	Description	Standby Current	Alarm Current	Total Alarm
Panel Equipment					
4100-9111	1	4100 CONFIG. DOMESTIC 120V	0.3730	0.3730	0.4700
4100-5101	2	EXPANSION PWR SUPPLY (XPS) - 120VAC 60HZ	0.0500	0.1000	0.1000
4100-6014	1	NETWORK IF CARD, WIRED	0.0460	0.0460	0.0460
4100-6056	2	NETWORK MEDIA CARD WIRED	0.0550	0.1100	0.1100
4100-6033	1	ALARM RELAY	0.0150	0.0150	0.0370
4100-3206	2	8 RELAYS - 3 AMP	0.0150	0.0300	0.1900
4100-1280	1	8 SWITCH, 8 RED LED MODULE	0.0000	0.0000	0.0240
4100-1286	1	HOA MODULE WITH 24 SWITCHES AND 24 RED LEADS	0.0240	0.0240	0.0240
4100-2153	1	INDICATOR ONLY, 3 BAY GLASS DOOR	0.0000	0.0000	0.0000
4100-6052	1	EVENT REPORTING DACT	0.0300	0.0300	0.0400
4100-1288	1	84/64 LED/SWITCH CONTROLLER	0.0200	0.0200	0.0200
4100-1279	13	2" BLANK DISPLAY MODULE	0.0000	0.0000	0.0000
4100-0634	1	POWER DISTRIBUTION MODULE 120V	0.0000	0.0000	0.0000
4100-1294	1	LED/SWITCH SLIDE-IN LABEL KIT	0.0000	0.0000	0.0000
4100-2300	2	EXPANSION BAY (PHASE 10 ONLY)	0.0000	0.0000	0.0000
4100-5115	1	EXPANSION NAC MODULE - 3 NACS	0.0250	0.0250	0.0250
4100-0650	1	BATTERY SHELF	0.0000	0.0000	0.0000
Panel Totals			0.7730	0.7730	1.2760

IDNet Addressable Devices (SLC)					
4099-9003	60	IDNET DOUBLE ACTION PULL STATION	0.0000	0.0000	0.0000
4099-9001	31	IDNET SUPERVISED IAM	0.0000	0.0000	0.0000
4099-9002	6	IDNET RELAY IAM	0.0000	0.0000	0.0000
4099-9101	36	IDNET CLASS B MONITOR ZAM	0.0000	0.0000	0.0000
4098-9714	15	TRUEALARM PHOTO SMOKE SENSOR	0.0000	0.0000	0.0000
4098-9733	25	TRUEALARM HEAT SENSOR	0.0000	0.0000	0.0000
4098-9756	6	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT	0.0000	0.0000	0.0000
4099-9201	2	4009 IDNET NAC EXTENDER, 120 VAC	0.0000	0.0000	0.0000
4098-9792	40	TRUEALARM SENSOR BASE	0.0000	0.0000	0.0000

Miscellaneous Peripheral Devices That May Require System Power					
4098-9843	6	ENCAPSULATED RELAY PAM-SD	0.0000	0.0000	0.0150
4098-9756	6	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT	0.0030	0.0180	0.0900
4603-9101	1	SERIAL LCD ANNUNCIATOR	0.0450	0.0450	0.2000
4090-9101	36	IDNET CLASS B MONITOR ZAM	0.0160	0.5760	2.5920

Notification Appliances					
4906-9101	4	V/O M-C NON-ADDRESS, RED, WALL	75	0.0000	0.1860
4906-9127	44	A/V M-C NON-ADDRESS, RED, WALL	75	0.0000	9.7240
7002T-24	41	WHEELLOCK AUDIBLE/STROBE	0.0000	0.0000	2.5830
Peripheral Totals			0.6390	0.0000	16.0230
RUI Totals			1	0.0035	0.0035

** 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:				
SFS-1			0.7180	8.3080
XPS-2			0.3470	4.9720
XPS-3			0.3470	4.0190
Sub Total			1.4120	17.2990
Additional Current Draws:				
RUI Connected Peripheral Devices	1	x 0.0035	= 0.0035	x 0.0035 = 0.0035
MAPNET/IDNet Device Addresses ordered / used	181	x 0.000799	= 0.1446	x 0.000997 = 0.1804
Sub Total			1.5601	17.4829
Spare addressable point capacity 0% 0 x 0.000799 = 0.0000 x 0.000997 = 0.0000				
Total			1.5601	17.4829
Standby Time = 24 Hrs x 1.5601 = 37.4424 Standby Ah Alarm Time = 5 Min 0.08333 x 17.4829 = 1.4569 Alarm Ah				
Additional Spare Capacity = 0% + 0.0000 = 38.8993				
Battery Discharge Factor = 20% + 7.7799 = 46.6792				
Minimum Battery Required 2081-9296 50AH (2x)				
Battery Supplied 2081-9296 50AH (2x)				

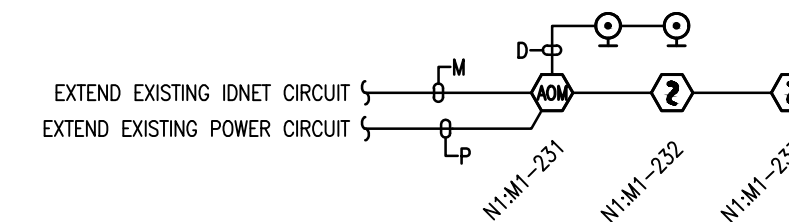
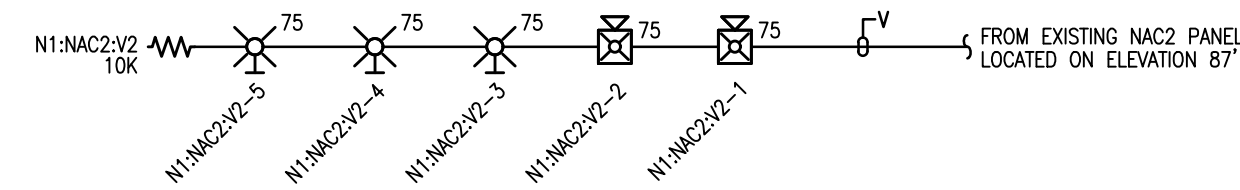
ELEVATION 87' N1-NAC PANEL 4009 NAC						
Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC	0.0850	0.0850	0.1850	0.1850
Panel Totals			0.0850	0.0850	0.1850	0.1850
Notification Appliances						
4906-9101	3	V/O M-C NON-ADDRESS, RED, WALL	75	0.0000	0.0000	0.5580
4906-9127	7	A/V M-C NON-ADDRESS, RED, WALL	75	0.0000	0.0000	2.2170
Peripheral Totals			0.0000	0.0000	2.1650	2.1650
RUI Totals			0	0.0000	0.0000	0.0000
Total Standby			0.0850	0.0850	Total Alarm	2.2900

** 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			0.0850	2.2900
Total			0.0850	2.2900
Standby Time = 24 Hrs x 0.0850 = 2.0400 Standby Ah Alarm Time = 5 Min 0.08333 x 2.29 = 0.1908 Alarm Ah				
Additional Spare Capacity = 0% + 0.0000 = 2.2308				
Battery Discharge Factor = 20% + 0.4462 = 2.6770				
Minimum Battery Required 2081-9272 6.2AH (2x)				
Battery Supplied 2081-9272 6.2AH (2x)				

ELEVATION 87' N1-NAC PANEL 4009 NAC VOLTAGE DROPS											
WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 60 Celsius											
NOTIFICATION CIRCUIT DESCRIPTION	Power Supply	Plan Ckt.	Dist. (Ft.)	Wire Gauge	Wire Res. Ft. (R)	Total (A) (A720H)	V. Drop (V)	% Volt Drop	Min Device Voltage	Max Distance	PID Condolet Device Type Supv. Current Alarm Current
ECOMANE 2ND LEVEL	4009	N1-NAC2-V2	512	14ga	0.0029	1.000	2.991	16.009	15.74%	16vdc	515 FT.
SPARE	4009	N1-NAC2-V3	1499	14ga	0.0029	0.000	19.000	0.00%	16vdc	0 FT.	
SPARE	4009	N1-NAC2-V4	1499	14ga	0.0029	0.000	19.000	0.00%	16vdc	0 FT.	

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.



FA-101

SECOND LEVEL

RISER DIAGRAM - SECOND LEVEL

ECOMANE - LOCKER ROOM RENOVATIONS

ECOMANE LOCKER ROOM RENOVATIONS
 PORTLAND, ME 04112

ISSUE NO.	DATE	CAD	CHK	DESCRIPTION

DRAWN BY:	M.DESIATA
CHECKED BY:	S.KALAFARSKI
ISSUE DATE:	9/20/16
JOB #:	
PROJECT #:	147-994549801
SIMPLEXGRINNELL © 2016	
SYSTEM:	
FIRE ALARM SYSTEM	
SHEET:	
RISER DIAGRAM - SECOND LEVEL	

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