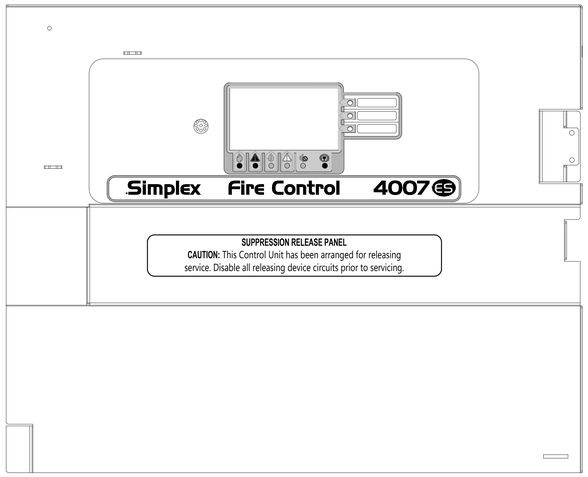


4007 TERMINATIONS

TERMINATION NUMBER	CIRCUIT LABEL	CKT DESCRIPTION	WIRE
1	N13:M1	PRE-ACTION IDNET DEVICES	X
2	N13:SIG1	PRE-ACTION SOLENOID CONTROL	C
3	N13:AUX	AUX POWER	P

MR Suppression Panel 4007 FACP

Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4007-9810	1	NETWORK INTERFACE CARD	0.0300	0.0300	0.0300	0.0300
4007-9813	1	WIRED MEDIA MODULE	0.0550	0.0550	0.0550	0.0550
4010-9830	1	SUP RELEASING APPLIQUE KIT	0.0000	0.0000	0.0000	0.0000
4007-9101	1	FIRE ALARM CONTROL PANEL 100 PT ADDRESSABLE – RED *	0.1450	0.1450	0.1800	0.1800
		Panel Totals		0.2300		0.2750
IDNet Addressable Devices (SLC)						
4090-9001	7	IDNET SUPERVISED IAM *	Constant current draw of .8mA standby and 1mA alarm per address used. Devices requiring additional current are accounted for in the section labeled "Miscellaneous Peripheral Devices Requiring Additional System Power".			
4090-9006	1	SUP RELEASE PERIPH & ENCLOSURE *				
4098-9714	1	TRUEALARM PHOTO SMOKE SENSOR				
4098-9792	1	TRUEALARM SENSOR BASE *				
4099-9015	1	ADDRESSABLE PUSH ACTION MANUAL STATION FOR RELEASING *				
Notification Appliances		Setting				
4090-9006	1	SUP RELEASE PERIPH & ENCLOSURE *	0.0000	0.0000	1.7100	1.7100
		Peripheral Totals		0.0000		1.7100
		Address Totals 10 Addresses		0.0080		0.0100
		System Totals*:	Standby	0.2380	Alarm	1.9950

* Device Address current draw included below (See Additional Current Draws).
1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.

Battery Set #1 (Cabinet/Charger #1)

			Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set: 4007				0.2300		1.9850
			Sub Total	0.2300		1.9850
Additional Current Draws:						
RUI Connected Peripheral Devices	0	x 0.0035	= 0.0000	x 0.0035	= 0.0000	
MAPNET/IDNet Device Address Communication Current	10	x 0.000800	= 0.0080	x 0.001000	= 0.0100	
		Sub Total	0.2380		1.9950	
Spare addressable point capacity	0%	0 x 0.0008	= 0.0000	x 0.001	= 0.0000	
		Total	0.2380		1.9950	
Standby Time = 24 Hrs		x 0.2380	= 5.7120 Standby Ah			
Alarm Time = 5 Min		0.08333 x 1.995	= 0.1663 Alarm Ah			
			5.8783			
Additional Spare Battery Capacity = 0%			+ 0.0000			
			5.8783			
Battery Discharge Factor = 20%			+ 1.1757			
Minimum Battery Required			7.0539			
Battery Supplied 2081-9275 18AH (2x)						

* System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above.

MR Suppression Panel 4007 FACP VOLTAGE DROPS — PID 4090-9006

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius — Setting; Device Type; Supv. Current 0.0000; Alarm Current 1.7100

NOTIFICATION CIRCUIT DESCRIPTION	Power Supply	Panel Circuit	Plan Ckt.	Dist. (D) Feet	Wire Gauge	Wire Res. / Ft. (R)	Total Alarm (A)	V. Drop (A*2D*R)	Volt @ End	% Volt Drop	Min Device Voltage	Max Distance
Pre-Action Solenoid Release	4007	SIG3	SIG3	15	14ga	0.0031	1.710	0.157	19.343	0.81%	16vdc	333 FT.

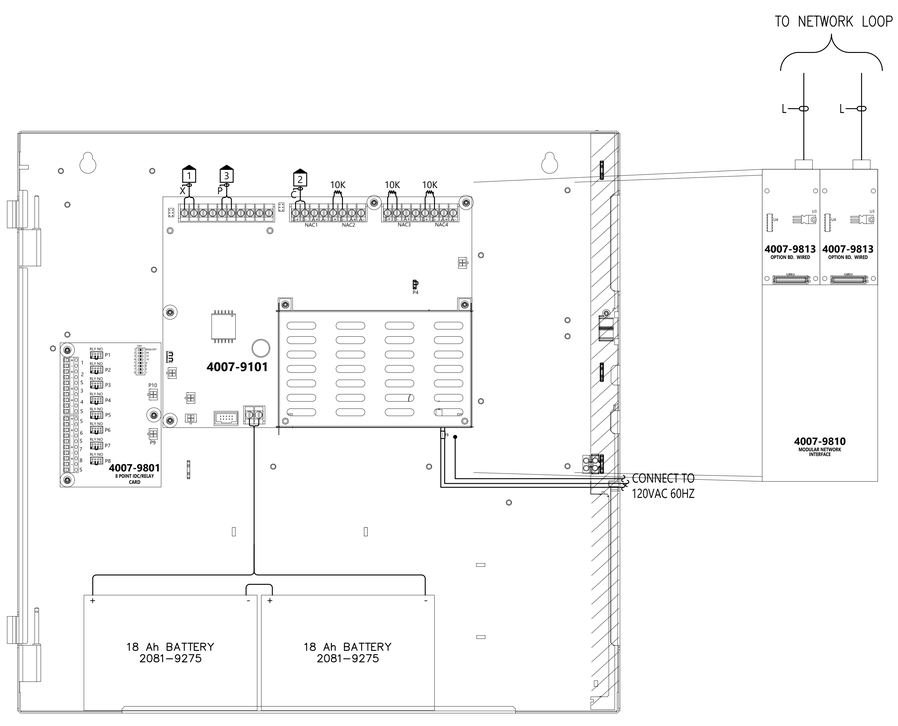
Pre-Action Solenoid Release	1

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 JOHNSON CONTROLS DISTRICT OFFICE.

IDNET CHANNEL N13:M1 — ADDRESSES IN USE: 10 (4%) | SPARE ADDRESSES: 240 (96%)

Address	Device Type	Point Type	Location Description		SWITCH SETTINGS 1 2 3 4 5 6 7 8	
N13:M1-1					X	ON
N13:M1-2					X	ON
N13:M1-3					X X	ON
N13:M1-4					X	ON
N13:M1-5					X X	ON
N13:M1-6					X X	ON
N13:M1-7					X X X	ON
N13:M1-8					X	ON
N13:M1-9					X X	ON
N13:M1-10					X X	ON
N13:M1-11	IAM	SO	LVL3 MRI PRE-ACTION TAMPER	N13:M1-11	X X X	ON
N13:M1-12	IAM	SO	LVL3 MRI PRE-ACTION LOW AIR	N13:M1-12	X X	ON
N13:M1-13	IAM	WATER	LVL3 MRI PRE-ACTION PRESSURE	N13:M1-13	X X X	ON
N13:M1-14	PHOTO	SMOKE	LVL3 ABOVE MRI PRE-ACTION PNL	N13:M1-14	X X X	ON
N13:M1-15	RELEASE	SUPRELS	LVL3 MRI SUPPRESSION RELEASE	N13:M1-15	X X X X	ON
N13:M1-16	IAM	TROUBLE	LVL3 MRI VESDA TROUBLE	N13:M1-16	X	ON
N13:M1-17	IAM	SUPERV	LVL3 MRI VESDA STAGE 1/2	N13:M1-17	X X	ON
N13:M1-18	IAM	SUPERV	LVL3 MRI VESDA STAGE 3	N13:M1-18	X X	ON
N13:M1-19	IAM	FIRE	LVL3 MRI VESDA FIRE	N13:M1-19	X X X	ON
N13:M1-20	ADRPUL	SUPDUMP	LVL3 MRI SUPPRESSION PULL	N13:M1-20	X X	ON
N13:M1-21					X X X	ON
N13:M1-22					X X X	ON
N13:M1-23					X X X	ON
N13:M1-24					X X	ON
N13:M1-25					X X X	ON
N13:M1-26					X X X	ON
N13:M1-27					X X X	ON
N13:M1-28					X X X	ON
N13:M1-29					X X X X	ON
THRU						ON
N13:M1-250					X X X X X X	ON

NOTE: THE LABELS SHOWN ABOVE WILL BE USED FOR PROGRAMMING PURPOSES.
THE LABELS ARE BASED UPON INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS.
ANY CHANGES TO THESE LABELS MUST BE NOTED ON THE SUBMITTAL REVIEW, PRIOR TO PROGRAMMING.
POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.



4007ES SUPPRESSION
RELEASING PANEL

Sequence of Operation Pre-Action	Manual Release Station	Smoke Detection Above Pre-Action	VESDA Alarm Input	VESDA Stage 1/2 Supervisory	VESDA Stage 3 Supervisory	VESDA Trouble	Pre-Action Sprinkler Pressure Switch	Pre-Action Sprinkler Tamper Switch	Pre-Action Sprinkler Low Air Switch	Pre-Action Sprinkler Low Air & VESDA Alarm Input	Maintenance Disconnect Active	Pre-Action Panel Trouble
Activation of Local Alarm at Pre-Action Panel	X	X	X				X			X		
Activation of Local Supervisory at Pre-Action Panel				X	X			X	X		X	
Activation of Local Trouble at Pre-Action Panel						X						X
Actuate Pre-Action Solenoid	X									X		
Transmit General Alarm Over Network	X	X	X				X			X		
Transmit General Supervisory Over Network				X	X			X	X		X	
Transmit General Trouble Over Network						X						X

Johnson Controls
9520 10th Avenue South, Suite 100
Seattle, WA 98108
SALES: 206-291-1400
SERVICE: 206-291-1411

NO.	DATE	REVISION DESCRIPTION	DRAFTER	ENGINEER	PROJECT #
	8/28/18	PATIENT CARE TOWER 7TH & 8TH FLR TI RECORD DRAWINGS	RSC		600595222
46	1/23/19	DALLY PHARMACY	RSC	JWB	610318224
	9/20/19	DALLY PHARMACY RECORD DRAWINGS	RSC		610318224
47	9/21/22	EGRESS DOORS	DAP	EQB	650169145
48	4/12/23	MRI PRE-ACTION PANEL UPGRADE	ARH	EQB	650375924

DRAWINGS REVIEWED BY:
Eric Beck, CET
NICET #228884
Fire Alarm Systems, Level III

FIRE ALARM SYSTEM
SUP. PANEL & CALCS

GOOD SAMARITAN – PATIENT CARE TOWER
401 15TH AVENUE SE
PUYALLUP, WA 98371

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501
SHEET NUMBER: FA–COV–09

ELECTRONIC DRAWING NAME: FA–COVER

42" x 30"