NOTIFIER by Honeywell

System Power Requirements

RP-2001/2002 Fire Alarm Control Panel

Protected Premises:	Verizon Wireless Equipment Room			Date:	7/12/13
Address:	202 Woodford St.				
City:	Portland	State:	ME	Zip:	
Prepared By:	Hiller New England Fire Protection, Inc.			Phone:	(978) 657-5550
Address:	240 Ballardvale St.			Email:	engineering@hillerne.com
City:	Wilmington	State:	MA	Zip:	01887

AC Branch Current Requirements — **2.09** AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load — **0.19** Amps

Current load on the primary power supply during **non-alarm** conditions.

Primary Alarm Load — **1.34** Amps

Current load on the primary power supply during **alarm** conditions.

Secondary Load Requirements — **5.52** Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.187 A	x	Required Standby Time 24 hours	4.49
Secondary Alarm Load 1.342 A	x	Required Alarm Time 0.084 hours	0.11
		Total Secondary Load	4.60
		Derating factor	x 1.2
		Secondary Load Requirements	**5.52** AH

Battery Selection — **7** Amp Hours

Select batteries from the list below.

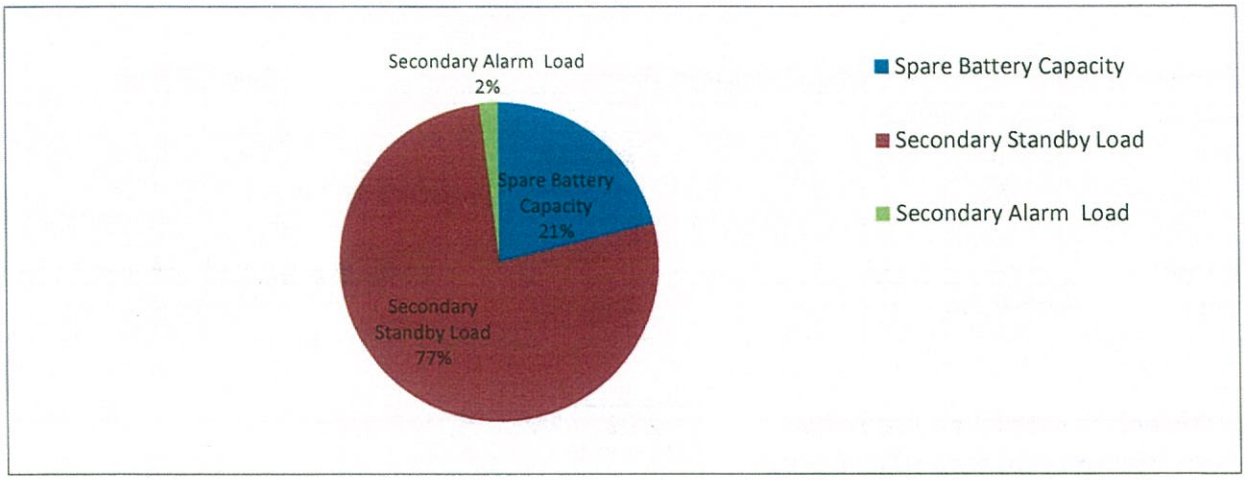
7 AH BAT-1270 Battery (12 volt)

(•) Two ( ) Four (two 12VDC sets in parallel)

STATE OF MAINE
JOEL P CORNELIUSEN
No. 11623
LICENSED PROFESSIONAL ENGINEER
8/1/13

Battery Distribution Chart

Shows amp-hour distribution of your selections.



Comments

1. Batteries will fit in the FACP cabinet.
2. Selected battery size meets secondary load requirements.
3. The selected batteries (7AH) are within the charger range of this power supply (7-26AH).

Spare Battery Capacity	1.48	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	5.39	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.14	Secondary Alarm Load (AH) * Derating Factor

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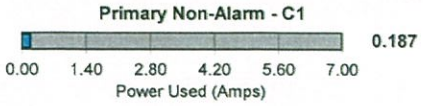
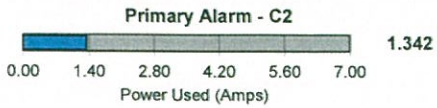
System Current Draw - RP-2001/2002

Current Draw	
C1	0.187 A
C2	1.342 A
C3	0.187 A
C4	1.342 A





	C1 - Primary Non-Alarm				C2 - Primary Alarm				C3 - Secondary Non-Alarm			
Device	Qty		Draw	Non-Alarm	Qty		Draw	Alarm	Qty		Draw	Standby
Main Circuit Board	1	x	0.12200	0.12200	1	x	0.14500	0.14500	1	x	0.12200	0.12200
GECR24PWR75	1	x	0.00000	0.00000	1	x	0.30900	0.30900	1	x	0.00000	0.00000
GESR24PWR75	1	x	0.00000	0.00000	1	x	0.25300	0.25300	1	x	0.00000	0.00000
Number of IDC Circuits Used					1	x	0.04000	0.04000				
Hiller Key Switch	1	x	0.02000	0.02000	1	x	0.02000	0.02000	1	x	0.02000	0.02000
N-ANN-RLY	1	x	0.01500	0.01500	1	x	0.07500	0.07500	1	x	0.01500	0.01500
Electric Valve Actuator	1	x	0.03000	0.03000	1	x	0.50000	0.50000	1	x	0.03000	0.03000
			Total Non-Alarm Load:	0.187			Total Alarm Load:	1.342			Total Standby Load:	0.187

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RP-2001/2002 - AC Branch Current

Select devices using the "Qty" column.
Use yellow cells to enter quantities and current values.
To show only selected devices, select "Show Selected Devices".
To clear selected devices, select "Clear Selections".

Note: These selections only determine the AC branch current. If these devices will affect the battery requirements, you need to select them on the System Current Draw sheet.

◉ 120 VAC ○ 220/240 VAC

Device	Qty		Current	Total
RP-2001/2002	1	x	2.09 A	2.09 A
			AC Branch Required:	**2.09 A**