version 1.059 (9/15/2011)

Honeywell Security

Battery & Power Budget Calculator

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☐ Apply UL Power Limits? (Required to maintain UL Listing including UL864)

☑ Commercial Fire Installation

☑ Commercial Burg Installation

Facility Information	
Location:	Cianbro Corporation 60 Cassidy Drive
Account #:	
Model:	Vista 128FB
Engineer:	Robin Russell
Date:	10/9/2012

Enter Standby and Alarm Times		Battery Contigency Factor
Battery Standby (hours):	24	10%
Alarm Duration (minutes):	5	

Recommended Battery (AH): **22.3**

SELECTED PANEL MAXIMUM OUTPUT RATINGS

Select Panel from pulldown list: Vista-128FB

	Polling Loop (mA)	Standby Auxiliary Power (mA)	Alarm Auxiliary Power (mA)	Panel Standby (mA)	Panel Alarm (mA)	Bell #1 Output (mA)	Bell #2 Output (if used; mA)	Maximum Panel Standby Output	Maximum Panel Alarm Output	Max Battery Supported by Panel
	128	1000	1700	300	470	1700	1700	1300	2800	34.4
								Total Standby	Total Alarm	
Calculated Current Draw	30.6	478	475	Calculated Bell Draw		0	0	509	506	
								Standby Budget	Alarm Budget	
Power Budget	225.3	522.0	1225.0	Bell Power Budget		1700.0	1700.0	791.4	2294.4	
				External Bell Power Req'd (mA):			0.0	Ext. UL Power Req'd (mA):		0.0

☐ Remove Unused Devices From List

Grayed-out device(s) are not supported by selected panel

KEYPADS/INTERFACES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
6128	0	0	40	40			0	0	0
6128RF ☐ Using Relay?	0	0	60	100			0	0	0
6148V	0	0	40	40			0	0	0
6139/6139R	0	0	40	100			0	0	0
6148	0	0	40	40			0	0	0
6148EX	0	0	40	40			0	0	0
6148R	0	0	40	40			0	0	0
6148RV	0	0	40	100			0	0	0
6148V	0	0	40	100			0	0	0
6148RF	0	0	60	100			0	0	0
6160/6160CR	2	0	45	150			90	300	0
6160CR-2	1	0	45	160			45	160	0
6160EX	0	0	45	160			0	0	0
6160RF	0	0	65	150			0	0	0
6160V	0	0	45	150			0	0	0
6162/6 ☐ Using Relay?	0	0	35	240			0	0	0
6128RF	0	0	40	40			0	0	0
6270	0	0	150	240			0	0	0
6270C	0	0	150	240			0	0	0
6270CV	0	0	150	240			0	0	0
6270V	0	0	150	240			0	0	0
6272CV	0	0	150	300			0	0	0
6272CSV	0	0	150	300			0	0	0
6272CRV	0	0	150	300			0	0	0
6272V	0	0	150	300			0	0	0
6160V	0	0	45	150			0	0	0
6160RF (Symmitron)	0	0	65	150			0	0	0
FSA-8 Fire Zone Annunciator	0	0	35	65			0	0	0
FSA-24 Fire Zone Annunciator	0	0	35	130			0	0	0
Add'l Keypd (Enter # and Currents)	0	0	0	0			0	0	0
Add'l Keypd (Enter # and Currents)	0	0	0	0			0	0	0

2 WIRE & 4 WIRE SMOKE DETECTORS *(except Vplex Polling Loop detectors)*	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
2 wire smoke detector (zone powered)	0		*Two-wire smoke detector current is built into the panel budgets. These fields are included to help you create a complete equipment list. The line below indicates if number of detectors exceeds panel capacity, or if the selected panel does not support 2-wire smoke detectors.*						
2 wire smoke detector (zone powered)	0								
2 wire smoke detector (zone powered)	0								
2 wire smoke detector (zone powered)	0								
12V 4 Wire Smoke (Qnt'y & Currents)	0	0	0	0			0	0	0
12V 4 wire Smoke (Qnt'y & Currents)	0	0	0	0			0	0	0
12V 4 wire Smoke (Qnt'y & Currents)	0	0	0	0			0	0	0
12V 4 wire Smoke (Qnt'y & Currents)	0	0	0	0			0	0	0

MULTI-POWER DEVICES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
4208U [powered by polling loop]	0	0	0	0	0	0	0	0	0
4208U [powered by panel aux power]	0	0	0	0	0	0	0	0	0
4208U [powered externally]	0	0	0	0	0	0	0	0	0
4208SN [powered by polling loop]	0	0	0	0	0	0	0	0	0
4208SN [powered by panel aux power]	0	0	0	0	0	0	0	0	0
4208SN [powered externally]	0	0	0	0	0	0	0	0	0
4208SNF [powered by polling loop]	0	0	0	0	0	0	0	0	0
4208SNF [powered by panel aux power]	0	0	0	0	0	0	0	0	0
4208SNF [powered externally]	0	0	0	0	0	0	0	0	0
4208SNF (Class B to A Zone Converter)	0	0	40	0	0	0	0	0	0
4209U Grouped Zone Mux. Module	0	0	0	0	0	0	0	0	0
4209U [powered externally]	0	0	0	0	0	0	0	0	0
4297 Polling Loop Extender	1	0	0	0		0	0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0	0	0	0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0	0	0	0	0	0

AUXILIARY POWERED DEVICES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
PS24 24 volt Power Supply Module	0	0	50	100			0	0	0
4100SM (no more than one per system)	0	0	25	0			0	0	0
4204: Enter no. of relays used	0	0	40	0			0	0	0
4204CF:Enter no. of relays used	0	0	80				0	0	0
4285 Voice Module	0	0	160				0	0	0
4286 with warning speakers	0	0	220	300			0	0	0
5140DLM Backup Dialer Module	1	0	5	15			5	15	0
5800RP wireless repeater module	0	0	100				0	0	0
5800TM wireless xmtr module	0	0	20				0	0	0
5881EN receiver	0	0	60				0	0	0
5883 hi-security receiver	0	0	80				0	0	0
UVS-QM	0	0	75	110			0	0	0
VA8200 Panel Linking Module	0	0	88	0			0	0	0
VA8201 Alpha Pager Module	0	0	165	0			0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
Communicators									
7845GSM/7845i-GSM	0	0	10				0	0	0
7845i/7845i-ENT	0	0	10				0	0	0
GSMCF/iGSMCF Fire Communicator	0	0	10				0	0	0
Vista-GSM/Vista-GSMCN (Vista-21iP only)	0	0	10				0	0	0
7847i/7847i-E Internet Communicator	0	0	75				0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
PIR Motion Detectors (non Vplex)									
IS215T ☐ LED Active?	0	0	7				0	0	0
IS215TCE	0	0	18				0	0	0
IS2260/IS2260T ☐ LED Active?	0	0	4				0	0	0
IS2460	0	0	9				0	0	0
IS2500LT	0	0	25				0	0	0
IS2535/IS2535T	3	0	20				60	0	0
IS2560/IS2560T	1	0	20				20	0	0
IS2560TC	0	0	25				0	0	0
IS310/IS320 Request to Exit (RTE)	0	0	35				0	0	0
997 Ceiling Mount PIR ☐ LED Active?	0	0	12				0	0	0
998 Wall Mount PIR ☐ LED Active?	0	0	13				0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Dual Tech Motion Detectors (non Vplex)									
DT-515	0	0	20	0			0	0	0
DT-6100STC	0	0	35	0			0	0	0
DT-7235T	4	0	20	0			80	0	0
DT-7435/DT-7435C	0	0	30	0			0	0	0
DT-7450/DT-7450MIC	0	0	35	0			0	0	0
DT-7550	0	0	40	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0

POLLING LOOP DEVICES	Enter Quantity	How many powered by 4297?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
4101SN Single Output Relay Module	0	0			7	0			
4190SN Two Zone SIM	0	0			2	0			
4190WH	0	0			2	0			
4191SN-WH	0	0			0.5	0			
4192CP	0	0			0.4	0			
4192SD Photoelectric Smoke Det.	0	0			0.4	0			
4192SDT	0	0			0.4	0			
4193SN Two Zone SIM	10	0			1.5	15			
4194 Contact	0	0			1	0			
4196	0	0			1	0			
4209U	0	0			15.5	0			
4275EX Dual PIR ☐ LED Active?	0	0			1	0			
4275EX-SN Dual PIR ☐ LED Active?	0	0			1	0			
4278EX-SN ☐ LED Active?	0	0			1	0			
DT7500SN ☐ LED Active?	0	0			2.6	0			
4293SN	0	0			1	0			
4939SN WH/BR/GY Surf Mt. Cntct.	0	0			1	0			
4944SN Recessed Contact	0	0			1	0			
4945SN-WH	0	0			0.5	0			
4959SN Overhead Door Contact	0	0			0.5	0			
5192SD Smoke Detector ☐ LED Active?	0	0			1.2	0			
5192SDT Smoke w/ Heat ☐ LED Active?	0	0			1.2	0			
5193SD Smoke Detector ☑ LED Active?	2	0			2.8	5.6			
5193SDT Smoke w/ Heat ☐ LED Active?	0	0			1.2	0			
998MX PIR ☐ LED Active?	0	0			1	0			
IS2500SN PIR ☑ LED Active?	2	0			5	10			
FG-1625SN Glass Break Detector	0	0			1	0			
Quest2260SN ☐ LED Active?	0	0			6	0			
Vplex-VSI Short Isolator	0	0			5	0			
Vistakey	0	0			2	0			
Add'l VPlex (enter qnt'y & current)	0	0			0	0			
Add'l Vplex (enter qnt'y & current)	0	0			0	0			

12V NOTIFICATION DEVICES ON BELL OUTPUT #1	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Sounder Current from Panel Bell #1	Total Sounder Current (external)
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0

12V NOTIFICATION DEVICES ON BELL OUTPUT #2 (IF USED)	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Sounder Current from Panel Bell #2	Total Sounder Current (external)
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0

12V AUX POWER AND BELL CIRCUIT WIRE RUN DATA	Units	Wire Gauge(AWG)	Ohms per 1000 ft	Alarm Current Draw (mA)	Run Length	Actual Resistance (twin leads)	Voltage At EOL	Voltage Drop (Percent)
Panel Aux Power Wire Run (twin lead)	Feet	#14 AWG Solid	3.19	475.00	10	0.06	11.97	0.25
Panel Bell 1 Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	0.00	0	0.00	12.00	0.00
Panel Bell 2 Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	0	0	0.00	12.00	0.00

PS24 Power Supply

Battery & Power Budget Calculator

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Standby/Alarm Durations (from top)	
Battery Standby (hours):	24
Alarm Duration (minutes):	5
Required Capacity (AH)	1.059
Use TWO identical batteries w/ this AH capacity	7.0

	PS24 POWER SUPPLY MODULE, MAXIMUM CAPACITIES									
	Panel 12V Standby (mA)	Panel 12V Alarm (mA)	Output A Standby (mA)	Output A Alarm (mA)	Output B Standby (mA)	Output B Alarm (mA)	PS24 PC Board (mA)	Maximum Total Standby Output	Maximum Total Alarm Output	Max. Battery Capacity
☐ Using PS24 to back up Control Panel	809	976	570	1700	570	1700	40	610	4180	34.4
								Total Standby	Total Alarm	
Equivalent panel load @ 24V	0.0	0.0	0	0	0	0	40	40	40	
(converted to 12VDC from 24V full-wave)								Standby Budget	Alarm Budget	
Power Budget	808.6	975.6	570.0	1700.0	570.0	1700.0		570.0	4140.0	34.4

24V NOTIFICATION APPLIANCES Enter Device Names & Specifications	Enter Quantity	Which PS24 Output?	Device Standby Load (MA)	Device Alarm Load (MA)		Subtotal A Standby	Subtotal A Alarm	Subtotal B Standby	Subtotal B Alarm
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0

24V BELL CIRCUIT WIRE RUN DATA	Units	Wire Gauge(AWG)	Ohms per 1000 ft	Total Alarm Current Draw (mA)	Run Length	Actual Resistance (twin leads)	Voltage At EOL	Voltage Drop (Percent)
PS24 Output A Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	0.00	0	0.00	24.00	0.00
PS24 Output B Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	0.00	0	0.00	24.00	0.00