FIRE-LITE ALARMS by Honeywell

MS-9200UDLS Rev.3 Battery Calculation

Secondary Power Source Requirements

Device Type	Standby Current (amps) Qty		Current Draw		Total	Secondary Alarm Current (amps) Qty		Current Draw		Total
Main Circuit Board	1	x	0.145000	=	0.145000	1	x	0.275000	=	0.275000
XRM-24B	0	x	0.000000	=		0	x	0.000000	=	
4XTMF	0	x	0.005000	=		0	x	0.011000	=	
IPDACT-2	0	x	0.093000	=		0	x	0.136000	=	
IPDACT-2UD	0	x	0.098000	=		0	x	0.155000	=	
ECC-FFT	0	x	0.120000	=		0	x	0.230000	=	
ANN-BUS Devices										
ANN-80(-W)	1	x	0.015000	=	0.015000	1	x	0.040000	=	0.040000
ANN-LED	0	x	0.028000	=		0	x	0.068000	=	
ANN-RLED	0	x	0.028000	=		0	x	0.068000	=	
ANN-RLY	0	x	0.015000	=		0	x	0.075000	=	
ANN-I/O	0	x	0.035000	=		0	x	0.200000	=	
ANN-S/PG	0	x	0.045000	=		0	x	0.045000	=	
ANN-LC	0	x	0.150000	=		0	x	0.150000	=	
ACS Annunciators										
ACM-8RF	0	x	0.030000	=		0	x	0.158000	=	
ACM-16ATF	0	x	0.040000	=		0	x	0.056000	=	
ACM-32AF	0	x	0.040000	=		0	x	0.056000	=	
AEM-16ATF	0	x	0.002000	=		0	x	0.018000	=	
AEM-32AF	0	x	0.002000	=		0	x	0.018000	=	
AFM-16ATF	0	x	0.040000	=		0	x	0.056000	=	
AFM-32AF	0	x	0.040000	=		0	x	0.056000	=	
AFM-16AF	0	x	0.025000	=		0	x	0.065000	=	
LDM-32F	0	x	0.040000	=		0	x	0.056000	=	
LDM-E32F	0	x	0.002000	=		0	x	0.018000	=	
LCD-80F	1	x	0.025000	=	0.025000	1	x	0.064000	=	0.064000
Addressable Devices										
BEAM355	0	x	0.002000	=						
BEAM355S	0	x	0.002000	=						
BEAM1224	0	x	0.017000	=						
CP355	0	x	0.000300	=						
SD355	14	x	0.000300	=	0.004200					
SD355T	0	x	0.000300	=						
AD355	0	x	0.000300	=						
H355	0	x	0.000300	=						
H355R	39	x	0.000300	=	0.011700					
H355HT	12	x	0.000300	=	0.003600					
D350P	0	x	0.000300	=						
D350RP	0	x	0.000300	=						
D350PL	0	x	0.000300	=						
D350RPL	0	x	0.000300	=						
D355PL	0	x	0.000300	=						
MMF-300	1	x	0.000400	=	0.000400					
MMF-300-10	0	x	0.003500	=						
MDF-300	0	x	0.000750	=						
MMF-301	0	x	0.000375	=						
MMF-302	0	x	0.000270	=						
MMF-302-6	0	x	0.002000	=						
BG-12LX	9	x	0.000300	=	0.002700					
CMF-300	0	x	0.000390	=						
CMF-300-6	0	x	0.002250	=						
CRF-300	0	x	0.000270	=						
CRF-300-6	0	x	0.001450	=						
CDRM-300	0	x	0.001300	=						
I300	0	x	0.000400	=						
B501BH-2	0	x	0.001000	=						

B501BHT-2	0	x	0.001000	=						
B224RB	0	x	0.000500	=						
B224BI	0	x	0.000450	=						
B200SR	0	x	0.001000	=						
	Maximum alarm draw for all Addressable devices ---------->									0.400000
EOLR-1	1	x	0.020000	=	0.020000	1	x	0.020000	=	0.020000
FCPS (Remote Sync)						1	x	0.021700	=	0.021700
Resettable Power										
4-Wire Smoke Detectors	0	x	0.000000	=		0	x	0.000000	=	
Auxiliary Power										
CMF-300 (Aux. Power)	0	x	0.001700	=		0	x	0.007000	=	
CMF-300-6 (Aux. Power)	0	x	0.008000	=		0	x	0.020000	=	
MMF-302 (Aux. Power)	0	x	0.012000	=		0	x	0.090000	=	
MMF-302-6 (Aux. Power)	0	x	0.050000	=		0	x	0.270000	=	
B200SR (Aux. Power)	0	x	0.000500	=		0	x	0.035000	=	
Miscellaneous Devices										
CO Detector	1	x	0.020000	=	0.020000	1	x	0.040000	=	0.040000
	0	x	0.000000	=		0	x	0.000000	=	
	0	x	0.000000	=		0	x	0.000000	=	
	0	x	0.000000	=		0	x	0.000000	=	
	0	x	0.000000	=		0	x	0.000000	=	
Output Circuits										
NAC/Output #1			0.000000	=				0.900000	=	0.900000
NAC/Output #2			0.000000	=				0.990000	=	0.990000
NAC/Output #3			0.000000	=				0.000000	=	
NAC/Output #4			0.000000	=				0.000000	=	
Current Draw from TB3			0.000000	=				0.000000	=	
			Total Standby Load		**0.247600**			**Total Alarm Load**		**2.750700**

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MS-9200UDLS Rev.3 Battery Calculation

Calculation in Total Sheet

		Required Standby Time in Hours			
		24 Hours			
Standby Load Current	**0.24760 Amps**	x	24	=	5.942 AH
		Required Alarm Time in Minutes			
		15 Minutes			
Alarm Load Current (Amps)	**2.75070 Amps**	x	0.25	=	0.688 AH
				Total Current Load	**6.630 AH**
	Multiply by the Derating Factor		1.2	=	x 1.20
				Total Ampere Hours Required	**7.96 AH**

Recommended Batteries:	**BAT-12120 - 12AH Batteries**

Battery Check
The batteries can be charged by the MS-9200UDLS Charger.
The batteries can be housed in the MS-9200UDLS Cabinet.

Current Draw Check
NAC#1 current is within the limitations of the circuit.
NAC#2 current is within the limitations of the circuit.
NAC#3 current is within the limitations of the circuit.
NAC#4 current is within the limitations of the circuit.
MS 9200UDLS Control Panel: The output current is within the panel's limitations.