FIRE-LITE ALARMS by Honeywell

MS-9200UDLS Rev.3 Battery Calculatio

Secondary Power Source Requirements

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 12/23/15

	Standby Current (amps)					Secondary Alarm Current (				
Device Type	Qty		Current Draw		Total	Qty		Current Draw		
Main Circuit Board	1	x	0.145000	=	0.145000	1	x	0.275000	=	
XRM-24B	1	x	0.000000	=	0.000000	1	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	=	
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	=	
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	0	x	0.025000	=		0	x	0.064000	=	
Resettable Power										
4-Wire Smoke Detectors	0	x	0.000000	=		0	x	0.000000	=	
Addressable Devices										
BEAM355	0	x	0.002000	=						
BEAM355S	0	x	0.002000	=						
BEAM1224	0	x	0.017000	=						
CP355	0	x	0.000300	=						
SD355	20	x	0.000300	=	0.006000					
SD355T	0	x	0.000300	=						
AD355	0	x	0.000300	=						
H355	0	x	0.000300	=						
H355R	1	x	0.000300	=	0.000300					
H355HT	1	x	0.000300	=	0.000300					
D350P	4	x	0.000300	=	0.001200					
D350RP	0	x	0.000300	=						
D350PL	0	x	0.000300	=						
D350RPL	0	x	0.000300	=						
D355PL	0	x	0.000300	=						
MMF-300	4	x	0.000400	=	0.001600					
MMF-300-10	0	x	0.003500	=						
MDF-300	4	x	0.000750	=	0.003000					
MMF-301	0	x	0.000375	=						
MMF-302	0	x	0.000270	=						
MMF-302-6	0	x	0.002000	=						
BG-12LX	11	x	0.000300	=	0.003300					
CMF-300	1	x	0.000390	=	0.000390					
CMF-300-6	0	x	0.002250	=						
CRF-300		x	0.000270	=						
CRF-300-6	0	x	0.001450	=						
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	0.000500	=						
CDRM-300	4	x	0.001300	=	0.005200					
	Maximum alarm draw for all Addressable devices ---------->									
EOLR-1	0	x	0.020000	=		0	x	0.020000	=	
FCPS (Remote Sync)						0	x	0.021700	=	
Miscellaneous Device 1	0	x	0.000000	=		0	x	0.000000	=	
Miscellaneous Device 2	0	x	0.000000	=		0	x	0.000000	=	
Miscellaneous Device 3	0	x	0.000000	=		0	x	0.000000	=	
Miscellaneous Device 4	0	x	0.000000	=		0	x	0.000000	=	
Miscellaneous Device 5	0	x	0.000000	=		0	x	0.000000	=	
NAC 1						1	x	0.825000	=	0.825000
NAC 2						1	x	0.472000	=	0.472000
NAC 3						1	x	0.857000	=	0.857000
NAC 4						1	x	0.714000	=	0.714000
Current Draw from TB3			0.000000	=				0.000000	=	
				Total Standby Load	**0.181290**				**Total Alarm Load**	**3.583000**

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Calculation in Total Sheet

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		Required Standby Time in			
		24 Hours			
Standby Load Current	**0.18129 Amps**	x	24	=	
		Required Alarm Time in M			
		5 Minutes			
Alarm Load Current (Amps)	**3.58300 Amps**	x	0.084	=	0.301 AH
				Total Current Load	**4.652 AH**
	Multiply by the Derating Factor	1.2		=	x 1.20
				Total Ampere Hours Required	**5.58 AH**

Recommended Batteries:	**BAT-1270 - 7AH 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.