


## MS-9050UD Battery Calculation

### Secondary Power Source Requirements

Device	Standby Current (amps)					Secondary Alarm Current (amps)				
	Qty		Current Draw	=	Total	Qty		Current Draw	=	Total
Main Circuit Board	1	x	0.120000	=	0.120000	1	x	0.200000	=	0.200000
4XTMF	0	x	0.005000	=		0	x	0.011000	=	
EOLR-1	0	x	0.020000	=		0	x	0.020000	=	
IPDACT-2	0	x	0.093000	=		0	x	0.136000	=	
IPDACT-2UD	0	x	0.098000	=		0	x	0.155000	=	
<b>ANN-BUS Devices</b>										
ANN-SEC Card	0	x	0.003000	=		0	x	0.003000	=	
ANN-80(-W)	0	x	0.015000	=		0	x	0.040000	=	
ANN-(R)LED	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-I/O LED	0	x	0.000000	=		0	x	0.010000	=	
ANN-S/PG	0	x	0.045000	=		0	x	0.045000	=	
ANN-LC	0	x	0.150000	=		0	x	0.150000	=	
<b>Addressable Devices</b>										
BEAM355	0	x	0.002000	=		[Shaded Area]				
BEAM355S	0	x	0.002000	=						
BEAM1224	0	x	0.017000	=						
CP355	0	x	0.000300	=						
SD355	1	x	0.000300	=	0.000300					
SD355T	0	x	0.000300	=						
AD355	0	x	0.000300	=						
H355	0	x	0.000300	=						
H355R	0	x	0.000300	=						
H355HT	0	x	0.000300	=						
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	0	x	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	4	x	0.000230	=	0.000920					
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	=						
ISO-6	0	x	0.002700	=						
B501BH-2	0	x	0.001000	=						
B501BHT-2	0	x	0.001000	=						

B224RB	0	x	0.000500	=						
B224BI	0	x	0.000450	=						
Maximum alarm draw for all Addressable devices ----->									0.40000	
<b>Resettable Power</b>										
4-Wire Smoke Detectors	0	x	0.000000	=		0	x	0.000000	=	
<b>Auxiliary Power</b>										
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	=	
B200SR-LF (Aux. Power)	0	x	0.001000	=		0	x	0.125000	=	
<b>Miscellaneous Devices</b>										
	0	x	0.200000	=		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	=		0	x	0.000000	=	
<b>Output Circuits</b>										
NAC/Output #1			0.000000	=				0.200000	=	
NAC/Output #2			0.000000	=				0.200000	=	
<b>Total Standby Load</b>					<b>0.121220</b>	<b>Total Alarm Load</b>				
						<b>1.000000</b>				

		<b>MS-9050UD Battery Calculation</b>		
Calculation in Total Sheet				
		<b>Required Standby Time in Hours</b>		
		24 Hours		
<b>Total Standby Current</b>	<b>0.1212 Amps</b>	x	24	=
				<b>2.909 AH</b>
		<b>Required Alarm Time in Minutes</b>		
		5 Minutes		
<b>Total Alarm Load</b>	<b>1.0000 Amps</b>	x	0.084	=
				<b>0.084 AH</b>
<b>Total Current Load</b>				<b>2.993 AH</b>
Multiply by the Derating Factor			1.2	=
				x 1.20
<b>Total Ampere Hours Required</b>				<b>3.59 AH</b>