

## MRP-2002 Battery Calculation

### Secondary Power Source Requirements

Device Type	Standby Current (amps)				Secondary Alarm Current (amps)					
	Qty	Current Draw	Total	=	Qty	Current Draw	Total	=		
<b>1. System</b>										
Main Circuit Board	1	x	0.09500	=	0.095000	1	x	0.22100	=	0.221000
4XTMF	0	x	0.00500	=		0	x	0.01100	=	
CAC-5X	0	x	0.00100	=		0	x	0.00100	=	
<b>2. Annunciators</b>										
ANN-SEC Card	0	x	0.00300	=		0	x	0.00300	=	
ANN-80(-W)	0	x	0.01500	=		0	x	0.04000	=	
ANN-RLY	0	x	0.01500	=		0	x	0.07500	=	
ANN-I/O	0	x	0.03500	=		0	x	0.20000	=	
ANN-I/O LEDs	0	x	0.00000	=		0	x	0.01000	=	
ANN-S/PG	0	x	0.04500	=		0	x	0.04500	=	
ANN(-R)LED	0	x	0.02800	=		0	x	0.06800	=	
<b>3. Conventional Detectors</b>										
IDC Circuits Used Minus 1		x		=		0	x	0.04000	=	
2-Wire Detectors		x		=					=	
4-Wire Detectors		x		=					=	
<b>4. Other Devices</b>										
Power Supervision Relays	0	x	0.02500	=		0	x	0.02500	=	
Miscellaneous Device 1	0	x		=		0	x		=	
Miscellaneous Device 2	0	x		=		0	x		=	
Miscellaneous Device 3	0	x		=		0	x		=	
Miscellaneous Device 4	0	x		=		0	x		=	
Miscellaneous Device 5	0	x		=		0	x		=	
<b>5. Notification Appliances</b>										
NAC 1		x		=			x		=	
NAC 2		x		=			x		=	
NAC 3		x		=			x		=	
NAC 4		x		=			x		=	
Total Draw from TB9				=					=	
<b>Total Standby Load</b>						<b>Total Alarm Load</b>				

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Note 1: You are **fully responsible for verifying these calculations.**

Note 2: Use the dropdowns in the **yellow** cells to enter values.

### Calculation in Total Sheet

		<b>Required Standby Time in Hours</b>		
<b>Standby Load Current</b>		x		=
		<b>Required Alarm Time in Minutes</b>		
<b>Alarm Load Current (Amps)</b>		x		=
		<b>Total Current Load</b>		
Multiply by the Derating Factor		1.2		=
		<b>Total Ampere Hours Required</b>		