



MS-10UD-7 Battery Calculation

Secondary Power Source Requirements

Device Type	Standby Current (amps)		Secondary Alarm Current (amps)		Total	
	Qty	Current Draw	Qty	Current Draw		
1. System						
Main Circuit Board	1	x 0.127000	=	0.127000		
4XTMF	0	x 0.005000	=			
CAC-5X	0	x 0.001000	=			
IPDACT-2	0	x 0.093000	=			
IPDACT-2UD	0	x 0.098000	=			
2. Annunciators						
ANN-80	1	x 0.015000	=	0.015000		
ANN-80-W	0	x 0.015000	=			
ANN-RLY	0	x 0.015000	=			
ANN-I/O	0	x 0.035000	=			
ANN-I/O LEDs	0	x 0.000000	=			
ANN-S/PG	0	x 0.045000	=			
ANN-LED	0	x 0.028000	=			
ANN-ILED	0	x 0.028000	=			
3. Resettable Power						
Conventional Detectors	1	x 0.001150	=	0.001150		
IDC's Used Minus 1						
EOLR-1	0	x 0.020000	=			
4. Other Devices						
Miscellaneous Device 1	0	x 0.000000	=			
Miscellaneous Device 2	0	x 0.000000	=			
Miscellaneous Device 3	0	x 0.000000	=			
Miscellaneous Device 4	0	x 0.000000	=			
Miscellaneous Device 5	0	x 0.000000	=			
5. Notification Appliances						
NAC 1		0.000000	=		2.900000	
NAC 2		0.000000	=		0.387000	
NAC 3		0.000000	=		0.000000	
NAC 4		0.000000	=		0.000000	
Resettable 1		0.000000	=		0.000000	
Non-Resettable 1		0.000000	=		0.000000	
Total Standby Load				0.143150	Total Alarm Load	3.952000



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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

Standby Load Current	0.14315 Amps	Required Standby Time in Hours		
		x	24	= 3.436 AH
Alarm Load Current (Amps)	3.95200 Amps	Required Alarm Time in Minutes		
		x	0.084	= 0.332 AH
		Total Current Load		3.768 AH
		Multiply by the Derating Factor		1.2
		Total Ampere Hours Required		4.52 AH

Recommended Batteries: BAT-1270 - 7AH Batteries

Battery Check

The batteries can be charged by the MS-10UD-7 Charger.

The batteries can be housed in the MS-10UD-7 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-10UD-7 Control Panel:

The output current is within the panel's limitations.

	0	X	0.000000	=		0	X	0.000000	=
	0	X	0.000000	=		0	X	0.000000	=
Total Standby Load			0.000000		Total Alarm Load			0.000000	

