

MS-5024 Battery Calculation

Since the current draws listed here can be edited, the user is fully responsible for verifying these calculations.

Entries only to be made in the Yellow cell locations

Regulated Load in Standby

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Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main Circuit Board	1	X	0.123	=	0.123
ADM-24		X	0.006	=	0
RZA-5F		X	0	=	0
CAC-5F (draws no current)		X	0	=	0
NACA-2F (1 max.)		X	0	=	0
2-wire Detector Heads		X		=	0
4-wire Detector Heads		X		=	0
Power Supervision Relays		X	0.025	=	0
Additional Current Draw from TB-4 (non alarm)		X		=	0
SUM COLUMN FOR STANDBY LOAD			0.123	=	AMPS

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Regulated Load in **ALARM**

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Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
MAIN CIRCUIT BOARD	1	X	0.255	=	0.255
ADM-24 (1 max.)	0	X	0.006	=	0
RZA-5F (1 max.)	0	X	0.046	=	0
CAC-5F (draws no current)	0	X	0	=	0
NACA-2F (1 max.)	0	X	0.025	=	0
4-wire Smoke Detectors	0	X		=	0
Power Supervision Relays	0	X	0.025	=	0
Programmable Relay(s)		X	0.01	=	0
Notification Appliances		X		=	0
ADDITIONAL CURRENT FROM TB-4 (ALARM CURRENT)		X		=	0
SUM COLUMN FOR LOAD IN ALARM			0.255	=	AMPS

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Calculation in Total Sheet

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Use the total standby and alarm load currents calculated in tables A-2A and A-2B for the following battery calculations

Standby Load Current (Amps)	0.123	X	Required Standby Time in Hours (24 or 60 Hrs.)	
			24	= 2.952
Alarm Load Current (Amps)	0.255	X	Required Alarm Time in Hours (5 minutes = 0.084)	
			0.084	= 0.02142
Add Standby and Alarm Load for Required Ampere Hour Battery				2.97342
Multiply by the Derating Factor of 1.2				
Total Ampere Hours Required				= 3.568104

Battery Check

The batteries can be housed in the panel cabinet
The panel is capable of charging the required batteries

Current Draw Check

The total NAC output current is within the limitations of the panel