

MS 2410B 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

Page 1

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main Circuit Board	1	X	0.138	=	0.138
LED-10IM (maximum one)		X	0.017	=	0
LED-10		X	0.023	=	0
4 XTMF Module (maximum 1)		X	0.005	=	0
411 Digital Comm. (maximum 1)		X	0.078	=	0
411 UD Digital Comm. (maximum 1)			0.100	=	0
Power Supervison Relays		X	0.025	=	0
4-Wire Smoke Detectors		X		=	0
2-Wire Smoke Detectors		X		=	0
Remote Trouble Buzzer (RTB)		X	0.020	=	0
Additional Current drawn from TB2 (standby)				=	0.000

SUM COLUMN FOR STANDBY LOAD			0.138	=	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	0.245	=	0.245
LED-10IM (maximum one)	0	X	0.017	=	0
LED-10	0	X	0.040	=	0
4 XTMF Module (maximum 1)	0	X	0.011	=	0
411 Digital Comm. (maximum 1)	0	X	0.126	=	0
411 UD Digital Comm. (maximum 1)	0	X	0.170	=	0
Power Supervison Relays	0	X	0.025	=	0
4-Wire Smoke Detectors	0	X		=	0
2-Wire Smoke Detectors	0	X		=	0
Remote Trouble Buzzer (RTB)	0	X	0.020	=	0
Additional Current drawn from TB2 (alarm)					0
NAC #1 (see note 1)					0
NAC #2 (see note 1)					0
SUM COLUMN FOR LOAD IN ALARM			0.245	=	AMPS

Note 1. Current Limited to to 1.25 amps per NAC expandable to 2.5 with XRm 24 transformer.

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Calculation in Total Sheet

Page 3

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)	0.138	X	Required Standby Time in Hours (24 or 60 Hrs.)	3.312
			<div style="background-color: yellow; display: inline-block; padding: 2px;">24</div> =	
Alarm Load Current (Amps)	0.245	X	Required Alarm Time in Hours (5 minutes = 0.084)	0.02058
			<div style="background-color: yellow; display: inline-block; padding: 2px;">0.084</div> =	
Add Standby and Alarm Load for Required Ampere Hour Battery				3.33258
Multiply by the Derating Factor of 1.2				
Total Ampere Hours Required				3.999096