FIRE-LITE ALARMS
by Honeywell

Voltage Drop Analysis

MS-9200UDLS Control Panel w/XRM-24B (2.5-amp circuit)

Notification Appliances - NAC #2

Source Voltage: 19.18 VDC Terminal Voltage

Protected Premises:	**Maine Hstorical Society**		Date:	**2/6/14**

Address:	**1000 Riverside St**	City:	**Portland**

State:	**ME**	Zip: **04103**	Note:	**Storage for MHS/PPL**

Prepared By:	**Timothy Parent**	Phone:	**(207)576-9255**

Address:	**187 Washington St**	City:	**Auburn**

State:	**ME**	Zip: **04211**

Device #	Part Number	Current (amps)	Distance (Feet) Between	Distance (Feet) Total			Circuit Voltage @ Each Device 14 AWG		
1	SR110	0.2020	130	130			18.52		
2	P2R110	0.2210	19	149			18.45		
3	P2R110	0.2210	50	199			18.32		
4	P2R15	0.0910	23	222			18.30		
5	PC2R15	0.0910	13	235			18.29		
	Total Current:	**0.8260**	**% Voltage Drop:**				**4.63**		
							Go		

~~Strikethrough~~ indicates a value below the device's minimum voltage at indicated location and wire gauge.

These calculations assume a worst-case source voltage as measured by UL with the batteries depleted to 20.4 volts. Under AC power and for most of the drain cycle of the batteries, the circuit voltages will be substantially higher and thus, would support a greater number of devices. A device's minimum operating voltage is derived from the UL-requirement that it operate within a Regulated Voltage Range (16VDC - 33VDC)