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3.6.2 Current Draw Worksheet for SK SLC Device

Use to determine current requirements during alarm/battery standby op SLC devices are installed. when SD SLC devices are installed. You can SK detectors SD per loop (396 points max per panel) *and* 99 SK module (396 points max per panel). Copy this section if additional space is required.

Table 3-2 Current Draw Worksheet for SK SLC Devices

Device	# of Devices	Current per Device			Standby Current	Alarm Current
For each device use this formula:	This column	X	This column	=	Current per number of devices.	
Fire Panel (battery current draw)	1	Standby:		275 mA	275 mA	
		Alarm:		440 mA		440 mA
Addressable SLC Detectors						
SK-PHOTO	42	Standby/Alarm:		.30 mA[6]	12.6 mA	mA
SK-PHOTO-T					mA	mA
SK-ION					mA	mA
SK-HEAT	4				1.2 mA	mA
SK-HEAT-HT					mA	mA
SK-ACCLIMATE					mA	mA
SK-HEAT-ROR					mA	mA
SK-DUCT[5] (includes PhotoR)	(99 max/loop & 396 max/ panel)[1]				mA	mA
SK-BEAM (without integral test)		SLC	Standby/Alarm:	2 mA		
		Aux. Pwr	Standby:	2 mA	mA	
			Alarm:	8.5 mA		mA
SK-BEAM-T[4](with integral test)		SLC	Standby/Alarm:	2 mA		
		Aux. Pwr	Standby:	2 mA	mA	
			Alarm:	8.5 mA		mA
SK-FIRE-CO		SLC	Standby:	.30mA	mA	
			Alarm:	7.2mA		mA
					288.8	473.8

RESURGAM CITY OF PORTLAND, MAINE
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Device	# of Devices	Current per Device			Standb Curren	
Addressable SLC Modules						
SK-Monitor	3	Standby/Alarm:		.375 mA		
SK-Minimon					1.13	
SK-Pull-SA					mA	mA
SK-Pull-DA	13				4.89	4.89
SK-Monitor-2		Standby/Alarm:		.75 mA	mA	mA
SK-Mon-10		Standby/Alarm:		3.5 mA	mA	mA
SK-Control		SLC	Standby:	2.25 mA	mA	
			Alarm:	2.25 mA		mA
		Aux Pwr	Standby:	1.7 mA	mA	
			Alarm:	7 mA		mA
SK-Control-6	(99 max/loop & 396 max/ panel)[1]	SLC	Standby:	2.25 mA	mA	
			Alarm:	2.25 mA		
		Aux Pwr	Standby:	8 mA	mA	
			Alarm:	20 mA		mA
SK-Relay		Standby/Alarm:		.255 mA	mA	mA
SK-Relay-6		Standby/Alarm:		1.45 mA	mA	mA
SK-Relaymon-2		Standby:		1.3 mA	mA	
		Alarm:		24 mA		mA
SK-Zone		Aux Pwr	Standby	12 mA	mA	
			Alarm	90 mA		mA
		SLC	Standby/ Alarm	.27 mA	mA	mA
SK-Zone-6		Aux Pwr	Standby	50 mA	mA	
			Alarm	270 mA		mA
		SLC	Standby/Alarm	2 mA	mA	mA
B200SR Sounder Base	(99 max/loop & 396 max/ panel)	Aux Pwr	Standby:	.50 mA	mA	
			Alarm:	35 mA		mA
		SLC	Standby	.30 mA	mA	
B200S Sounder Base		Aux	Standby	.50 mA	mA	
			Alarm (high vol)	35 mA		mA
		SLC	Standby	.30 mA	mA	
B224RB Relay Base		Standby/Alarm:		0.5 mA	mA	mA
RTS151/151 KEY		Alarm:		7.5 mA		mA
RA100Z		Alarm:		10 mA		mA
SK-Iso (Isolator Module)	(100 max/loop &400 max/ panel)	Standby/Alarm:		.45 mA	mA	mA
B224BI Isolator Base		Standby/Alarm:		.5 mA	mA	mA
Accessories Modules						
5815XL SLC Expander	(3 max.)	Standby/Alarm:		55 mA	mA	mA
5860 Remote Fire Alarm Annunciator	(8 max.)	Standby:		20 mA	mA	
		Alarm:		25 mA		mA
5824 Serial/Parallel Printer Interface Module	(2 max.)	Standby/Alarm:		45 mA	mA	mA
5496 Intelligent Power Module	(8 max.)	Standby/Alarm:		10 mA	mA	mA
5895XL IntelliKnight Power Module		Standby/Alarm:		10 mA	mA	mA
					6.92	6.92

RESURGAM CITY OF PORTLAND, MAINE
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	Device	# of Devices	Current per Device		Standb Curren	
	5865-4 LED Annunciator (with reset and silence switches)	(8 max.)	Standby:	35 mA	r	
			Alarm:	145 mA		
	5865-3 LED Annunciator		Standby:	35 mA	mA	
			Alarm:	145 mA		mA
	5880 I/O Module		Standby:	35 mA	mA	
			Alarm:	200 mA		mA
	5883 Relay Interface	(32 max.)	Standby:	0 mA	mA	
			Alarm:	220 mA (22 mA per relay)		mA
A				**Total System Current**	295.72	480.72
	Auxiliary Devices[2]	Refer to devices manual for current rating.				
			Alarm/Standby:	mA	mA	mA
			Alarm/Standby:	mA	mA	mA
			Alarm/Standby:	mA	mA	mA
			Alarm/Standby:	mA	mA	mA
B				**Auxiliary Devices Current**	0	0
	Notification Appliance Circuits	Refer to device manual for current rating.				
			Alarm:	1068 mA		1068 mA
			Alarm:	1312 mA		1312 mA
			Alarm:	2334 mA		2334 mA
			Alarm:	mA		mA
C				**Notification Appliances Current**		3714 mA
D	Total current ratings of all devices in system (line A + line B + C)				296 mA	4195 mA
E	Total current ratings converted to amperes (line D x .001):				.296 A	4.195 A
F	Number of standby hours:				24 H	
G	Multiply lines E and F.			**Total standby AH**	7.11 AH	
H	Alarm sounding period in hours. (For example, 5 minutes = .0833 hours)					.166 H
I	Multiply lines E and H.			**Total alarm AH**		.7 AH
J	Add lines G and I.[3]			**Total ampere hours required**	7.71 AH	

1. Total does not include isolator devices or accessory bases.
2. If using door holders, you do not need to consider door holder current for alarm/battery standby, because power is removed during that time. However, during normal operation, door holders draw current and must be included in the 6.0A total current that can be drawn from the panel.
3. Use next size battery with capacity greater than required.
4. SK-Beam-T draws a maximum of 500mA from Auxiliary power only when the test feature is used. this should be considered when determining auxiliary power capacity but not calculated into current requirements for day to day operation.
5. The SK-Duct housing contains a vacant mount for a SK-Relay (sold separately). Current draw for the SK-Relay is calculated by increasing the SK-Relay row of the calculation sheet by one for each SK-Relay used with a SK-Duct.