

M1 Gold Main Module Elk Products: ELK-M1GCB Tag Number
0062

Data Bus

One other connection in panel.

M1G Data Bus (Origin to White)

M1 Gold Main Module

Inferior Address = M1:(1)X1

<i>Downstream Cable</i>				<i>Downstream Wires</i>					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-C25	22-4	M1G Data Bus (Origin to White)	3	1L-C25	22	Green	Data A	DATA A	
1L-C25			<i>This Panel Only</i>	1L-C25	22	White	Data B	DATA B	
				1L-C25	22	Black	Return	NEG	

RS-232 Bus

One other connection in panel.

M1G RS-232 Primary Data Bus

M1 Gold Main Module

Output Address = W1:U1
Input Address = M1:(1)001

<i>Bus Cable</i>				<i>Bus Wires</i>					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-C29	Serial Cable	M1G RS-232 Primary Data Bus	3	1L-C29	Patch	RS-232 Cable	RS-232	RS-232	
1L-C29			<i>This Panel Only</i>						

Input / 1

Outside Temperature (Computed)

M1 Gold Main Module

Output Address = W1:U1
Input Address = M1:(1)001

<i>Source Cable(s)</i>				<i>Source Wires</i>					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A59	22-4 (S)	Outside Temperature (Computed)	9	1L-A59/60	22	White	Signal	Z1	
1L-A59/60			White/CN-Panel/6	1L-A59/60	22	Black	Return	NEG	

Input / 2

Outside Dewpoint (Computed)

M1 Gold Main Module

Output Address = W1:U2
Input Address = M1:(1)002

<i>Source Cable(s)</i>				<i>Source Wires</i>					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A60	22-4 (S)	Outside Dewpoint (Computed)	9	1L-A59/60	22	Green	Signal	Z2	
1L-A59/60			White/CN-Panel/6	1L-A59/60	22	Black	Return	NEG	

Input / 3

Master Bath: Tub Temperature (Signal)

M1 Gold Main Module

Input Address = M1:(1)003

<i>Source Cable(s)</i>				<i>Source Wires</i>					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
2B-S09	22-4 (S)	Master Bath: Tub Temperature (Signal)	56	2B-S09	22	White	Signal	Z3	
2B-S09			Master Bath						

Input / 4

Screen Porch: Temperature (Signal)

M1 Gold Main Module

Input Address = M1:(1)004

<i>Source Cable(s)</i>				<i>Source Wires</i>					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
2F-S10	22-4 (S)	Screen Porch: Temperature (Signal)	45	2F-S10	22	White	Signal	Z4	
2F-S10			Screen Porch						

Input / 5

Hot Tub Area: Tub Water Temperature (Signal)

M1 Gold Main Module

Input Address = M1:(1)005

<i>Source Cable(s)</i>				<i>Source Wires</i>					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
2M-S16	22-4 (S)	Hot Tub Area: Tub Water Temperature (Signal)	74	2M-S16	22	White	Signal	Z5	
2M-S16			Hot Tub Area						

Input / 6

M1 Gold Main Module

Input Address = M1:(1)006

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1C-S04 1C-S04	22-4 (S)	Red Utility Closet: Temperature (Signal)	55 Red Utility Closet

Red Utility Closet: Temperature (Signal)

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1C-S04	22	White	Signal	Z6

Input / 7

M1 Gold Main Module

Input Address = M1:(1)007

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1F-S05 1F-S05	22-4 (S)	Green Utility Closet: Temperature (Signal)	50 Green Utility Closet

Green Utility Closet: Temperature (Signal)

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1F-S05	22	White	Signal	Z7

Input / 8

M1 Gold Main Module

Input Address = M1:(1)008

Circuit ID Cable ID	Style	Location & Name	Length & Destination
3A-S01 3A-S01	22-4 (S)	Upper Storage Rm: Temperature (Signal)	40 Upper Storage Rm

Upper Storage Rm: Temperature (Signal)

Cable ID	AWG	Wire Color	Wire Function	Device Connection
3A-S01	22	White	Signal	Z8

Input / 9

M1 Gold Main Module

Input Address = M1:(1)009

Circuit ID Cable ID	Style	Location & Name	Length & Destination
4A-S20 4A-S20	22-4 (S)	Attic - ^ Dining Rm: Temperature (Signal)	32 Attic - ^ Dining Rm

Attic - ^ Dining Rm: Temperature (Signal)

Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S20	22	White	Signal	Z9
4A-S20	22	Green	Signal Reference	NEG

Input / 10

M1 Gold Main Module

Input Address = M1:(1)010

Circuit ID Cable ID	Style	Location & Name	Length & Destination
2C-S11 2C-S11	22-4 (S)	Great Room: Temperature (Signal)	45 Great Room

Great Room: Temperature (Signal)

Cable ID	AWG	Wire Color	Wire Function	Device Connection
2C-S11	22	White	Signal	Z10

Input / 11

M1 Gold Main Module

Input Address = M1:(1)011

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-S02 1L-S02	22-4 (S)	Mech Room: Temperature (Signal)	17 Mech Room

Mech Room: Temperature (Signal)

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-S02	22	White	Signal	Z11

Discrete Output / 9

M1 Gold Main Module

Output Address = M1:(1b)009

One other connection in panel.

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A89 1L-A89	22-10	Output Expander Drive 09	3 This Panel Only

Output Expander Drive 09

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A89	22	Gray	Signal 09	9
1L-A89	22	Black	Return	NEG

Discrete Output / 10

M1 Gold Main Module

Output Address = M1:(1b)010

One other connection in panel.

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A90 1L-A89	22-10	Output Expander Drive 10	3 This Panel Only

Output Expander Drive 10

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A89	22	Violet	Signal 10	10

Discrete Output / 11

One other connection in panel.

Output Expander Drive 11

M1 Gold Main Module

Output Address = M1:(1b)011

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A91 1L-A89	22-10	Output Expander Drive 11	3 This Panel Only	1L-A89	22	Yellow	Signal 11	11

Discrete Output / 12

One other connection in panel.

Output Expander Drive 12

M1 Gold Main Module

Output Address = M1:(1b)012

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A92 1L-A89	22-10	Output Expander Drive 12	3 This Panel Only	1L-A89	22	Orange	Signal 12	12

Discrete Output / 13

One other connection in panel.

Output Expander Drive 13

M1 Gold Main Module

Output Address = M1:(1b)013

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A93 1L-A89	22-10	Output Expander Drive 13	3 This Panel Only	1L-A89	22	Blue	Signal 13	13

Discrete Output / 14

One other connection in panel.

Output Expander Drive 14

M1 Gold Main Module

Output Address = M1:(1b)014

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A94 1L-A89	22-10	Output Expander Drive 14	3 This Panel Only	1L-A89	22	Brown	Signal 14	14

Discrete Output / 15

One other connection in panel.

Output Expander Drive 15

M1 Gold Main Module

Output Address = M1:(1b)015

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A95 1L-A89	22-10	Output Expander Drive 15	3 This Panel Only	1L-A89	22	Green	Signal 15	15

Discrete Output / 16

One other connection in panel.

Output Expander Drive 16

M1 Gold Main Module

Output Address = M1:(1b)016

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A96 1L-A89	22-10	Output Expander Drive 16	3 This Panel Only	1L-A89	22	White	Signal 16	16

Alarm Output / 1

One other connection in panel.

Alarm Audio Line Level Drive

M1 Gold Main Module

Output Address = M1:1

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1C-C06 1C-C06	Cat 5e	Red: Alarm Audio Line Level Drive	57 Red/CN-Panel/D	1C-C06	Cat 5e	Blue	Terminal A	Out1 (+)
1G-C11 1G-C11	Cat 5e	Blue: Alarm Speaker Line Level Drive	45 Blue/CN-Panel/D	1C-C06	Cat 5e	White/Blue	Terminal B	Out1 (-)
1L-C30 1L-C30	22-2 (S)	White: Alarm Audio Line Level Drive	3 This Panel Only	1G-C11	Cat 5e	Blue	Terminal A	Out1 (+)
				1G-C11	Cat 5e	White/Blue	Terminal B	Out1 (-)
				1L-C30	22	Red	Terminal B	Out1 (+)
				1L-C30	22	Black	Terminal A	Out1 (-)

Output

M1 Gold Main Module

Load Cable(s)				Load Cable Wires				Device
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
1L-P04 1L-S04	22-10	Mech Room: Smoke Detector (Power)	105 Mech Room	1C-A03	22	White	Smoke Signal	+SAUX
				1C-A03	22	Black	Return	NEG
1G-A19 1G-A12	22-4 (S)	Blue: Smoke Power Pilot	45 Blue/CN-Panel/D	1F-A07	22	White	Smoke Signal	+SAUX
				1F-A07	22	Black	Return	NEG
1C-A07 1C-A03	22-4 (S)	Red: Smoke Power Pilot	57 Red/CN-Panel/D	1G-A12	22	White	Smoke Signal	+SAUX
				1G-A12	22	Black	Return	NEG
1F-A07 1F-A07	22-4 (S)	Green: Smoke Power Pilot	49 Green/CN-Panel	1L-S04	22	White	Signal Return	+SAUX
				1L-S04	22	Black	12 V Return	NEG
2H-A18 2H-A18	22-2	Orange: Smoke Power Pilot	24 Orange/CN-Panel/L	2H-A18	22	Red	Smoke Signal	+SAUX
				2H-A18	22	Black	Return	NEG

Switched Smoke Detector Power

Prime Power Input

M1 Gold Main Module

Source Cable(s)				Source Wires				Device
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
1L-A166 1L-A166	16-2	Mech Room: M1G Prime (AC) Power (UPS)	8 White/CN-Panel/2	1L-A166	16	Red	16.5 Vac A	AC
				1L-A166	16	Black	16.5 Vac A	AC

Mech Room: M1G Prime (AC) Power (UPS)

Backup Battery

M1 Gold Main Module

Source Cable(s)				Source Wires				Device
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
1L-A113 1L-A113	18-2	Mech Room: 15Vdc M1G Backup Power (UPS)	8 White/CN-Panel/2	1L-A113	18	Red	+18V DC	Battery +
				1L-A113	18	Black	18V DC Return	Battery -

Mech Room: 15Vdc M1G Backup Power (UPS)

Alarm Capture

M1 Gold Main Module

Bus Cable				Bus Wires				Device
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
1L-C50 1L-C50	Cat 5 (M1)	Mech Room: M1G Alarm Phone to Demarc	37 Mech Room (@White/Phone-Demarc)	1L-C50	Cat 5e	White/Blue	House Tip	House Ring (R1)
				1L-C50	Cat 5e	Blue	House Ring	House Tip (T1)
				1L-C50	Cat 5e	White/Orange	Telco Tip	Telco Ring
				1L-C50	Cat 5e	Orange	Telco Ring	Telco Tip

Mech Room: M1G Alarm Phone to Demarc

M1 16 Zone Input Module (1 of 2)	"Input Expander 1-1 (11)"	Elk Products: ELK-M1XIN Tag Number 0178
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Discrete In / 02

Mech Room: Combustible Gas Detector (Signal)

M1 16 Zone Input Module #1

Input Address = M1:(B)162

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-S05	22-4	Mech Room: Combustible Gas Detector (Signal)	23	1L-S05	22	Green	Signal	Z02
1L-S05			Mech Room	1L-S05	22	Black	Common	NEG

Discrete In / 03

One other connection in panel.

Dining Room: Windows (All)

M1 16 Zone Input Module #1

Input Address = M1:(B)163

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-A100	22-2	Dining Room: Windows (All)	3	1L-A100	22	Red	Signal	Z03
1L-A100			This Panel Only	1L-A100	22	Black	Return	NEG

Discrete In / 04

Mech Room: Septic System Warning

M1 16 Zone Input Module #1

Input Address = M1:(B)164

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-A138	22-4	Mech Room: Septic System Warning	18	1L-A138	22	Green	Signal Return	Z04
1L-A138			Mech Room (@Septic System Controller)	1L-A138	22	White	Signal	NEG

Discrete In / 05

Mech Room: Service Door

M1 16 Zone Input Module #1

Input Address = M1:(B)165

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-S01	22-2	Mech Room: Service Door	19	1L-S01	22	Red	Signal	Z05
1L-S01			Mech Room	1L-S01	22	Black	Signal Return	NEG

Discrete In / 06

Mech Room: CO Detector (Signal)

M1 16 Zone Input Module #1

Input Address = M1:(B)166

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-S03	22-6	Mech Room: CO Detector (Signal)	17	1L-S03	22	Green	CO Signal	Z06
1L-S03			Mech Room	1L-S03	22	White	Signal Return	NEG

Discrete In / 07

Mech Room: Smoke Detector (Signal)

M1 16 Zone Input Module #1

Input Address = M1:(B)167

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-S04	22-10	Mech Room: Smoke Detector (Signal)	105	1L-S04	22	Green	Signal	Z07
1L-S04			Mech Room	1L-S04	22	Red	Signal Return	NEG

Discrete In / 08

Study-Foyer-Door-Closed-L

M1 16 Zone Input Module #1

Input Address = M1:(B)168

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-A50	22-4	Study-Foyer-Door-Closed-L	39	1L-A50/51	22	White	Signal	Z08
1L-A50/51			White/CN-Panel/4	1L-A50/51	22	Black	Return	NEG

Discrete In / 10

Generator Tamper (NC)

M1 16 Zone Input Module #1

Input Address = M1:(B)170

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A49 1L-A44/49	22-4	Generator Tamper (NC)	18 Yellow/Gen-Xfer-Switch	1L-A44/49	22	Green	Signal	Z10
				1L-A44/49	22	Black	Return	NEG

Discrete In / 12

AC Mains Fail (NO)

M1 16 Zone Input Module #1

Output Address = C1:Y209
Input Address = M1:(B)172

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A61 1L-A61	22-6	AC Mains Fail (NO)	8 White/CN-Panel/2	1L-A61	22	White	Signal	Z12
				1L-A61	22	Black	Return	NEG

Discrete In / 13

Generator Fail (NO)

M1 16 Zone Input Module #1

Input C1:Y210
Output Address = C1:Y210
Input Address = M1:(B)173

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A62 1L-A61	22-6	Generator Fail (NO)	8 White/CN-Panel/2	1L-A61	22	Green	Signal	Z13
				1L-A61	22	Black	Return	NEG

Discrete In / 14

Standby Lights On (NO)

M1 16 Zone Input Module #1

Output Address = C1:Y211
Input Address = M1:(B)174

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A63 1L-A61	22-6	Standby Lights On (NO)	8 White/CN-Panel/2	1L-A61	22	Brown	Signal	Z14
				1L-A61	22	Black	Return	NEG

Data Bus

One other connection in panel.

M1G Data Bus - Input Expander 1-1 (11)

M1 16 Zone Input Module #1

Superior Address = M1:(1)J4

Upstream Cable				Upstream Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-C27 1L-C27	Cat 5 (M1)	M1G Data Bus - Input Expander 1-1 (11)	3 This Panel Only	1L-C27	Cat 5e	Brown	+	+12
				1L-C27	Cat 5e	Orange	A	A
				1L-C27	Cat 5e	White/Orange	B	B
				1L-C27	Cat 5e	Green	A1	A1
				1L-C27	Cat 5e	White/Green	B1	B1
				1L-C27	Cat 5e	White/Brown	-	Neg

M1 16 Zone Input Module (2 of 2) "Input Expander 1-2 (12)" Elk Products: ELK-M1XIN Tag Number 0241

Discrete In / 01

HVAC Call - Any

M1 16 Zone Input Module #2

New

Input C6:Y74

Output Address = C6:Y74

Input Address = M1:(C)177

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A218	22-2	HVAC Call - Any	8	1L-A218	22	Black	Terminal A	Z01
1L-A218			White/CN-Panel/2	1L-A218	22	Red	Terminal B	NEG

Discrete In / 02

Water Shut-Off Valve Sense (Open)

M1 16 Zone Input Module #2

Input Address = M1:(C)178

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A06	22-4	Water Shut-Off Valve Sense (Open)	19	1L-A06	22	Red	Open Signal	Z02
1L-A06			Mech Room	1L-A06	22	Black	Signal Return	NEG

Discrete In / 03

Water Shut-Off Valve Sense (Closed)

M1 16 Zone Input Module #2

Input Address = M1:(C)179

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A84	22-4	Water Shut-Off Valve Sense (Closed)	19	1L-A06	22	White	Closed Signal	Z03
1L-A06			Mech Room	1L-A06	22	Black	Signal Return	NEG

Discrete In / 04

One other connection in panel.

Mech Room: Service Trouble

M1 16 Zone Input Module #2

Input Address = M1:(C)180

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A139	22-2	Mech Room: Service Trouble	3	1L-A139	22	Red	Signal	Z04
1L-A139			This Panel Only	1L-A139	22	Black	Return	NEG

Discrete In / 05

Critical Power Fault

M1 16 Zone Input Module #2

Change

Input M1:(C)181

Input Address = M1:(C)181

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A140	22-2	Critical Power Fault	8	1L-A140	22	Red	Signal	Z05
1L-A140			White/CN-Panel/2	1L-A140	22	Black	Return	NEG

Discrete In / 06

Cabinet Fan Alarm

M1 16 Zone Input Module #2

Input M1:(C)182

Output Address = J2:(2)Z1

Input Address = M1:(C)182

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A150	22-4	Cabinet Fan Alarm	8	1L-A150	22	Red	Alarm Signal	Z06
1L-A150			White/CN-Panel/2	1L-A150	22	Black	Return	NEG

Discrete In / 07

Cabinet Fan Trouble

M1 16 Zone Input Module #2

Output Address = J2:(2)Z2

Input Address = M1:(C)183

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A151	22-4	Cabinet Fan Trouble	8	1L-A150	22	White	Trouble Signal	Z07
1L-A150			White/CN-Panel/2	1L-A150	22	Black	Return	NEG

Discrete In / 08

One other connection in panel.

Down Spout Tamper

M1 16 Zone Input Module #2

Input On

Input Address = M1:(C)184

Circuit ID	Style	Location & Name	Length & Destination
1L-A99	22-2	Down Spout Tamper	3
1L-A99			This Panel Only

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A99	22	Red	Down Spout 1	Z08
1L-A99	22	Black	Return	NEG

Discrete In / 09

Bathroom Heating Alarm

M1 16 Zone Input Module #2

Input M1:(C)185

Output Address = J1:Z1

Input Address = M1:(C)185

Circuit ID	Style	Location & Name	Length & Destination
1L-A152	22-4	Bathroom Heating Alarm	8
1L-A152			White/CN-Panel/2

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A152	22	Red	Alarm Signal	Z09
1L-A152	22	Black	Return	NEG

Discrete In / 10

Bathroom Heating Trouble

M1 16 Zone Input Module #2

Output Address = J1:Z2

Input Address = M1:(C)186

Circuit ID	Style	Location & Name	Length & Destination
1L-A153	22-4	Bathroom Heating Trouble	8
1L-A153			White/CN-Panel/2

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A152	22	White	Trouble Signal	Z10
1L-A152	22	Black	Return	NEG

Data Bus

One other connection in panel.

M1G Data Bus - Input Expander 1-2 (12)

M1 16 Zone Input Module #2

Superior Address = M1:(1)J5

Circuit ID	Style	Location & Name	Length & Destination
1L-C28	Cat 5 (M1)	M1G Data Bus - Input Expander 1-2 (12)	3
1L-C28			This Panel Only

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-C28	Cat 5e	Brown	+	+12
1L-C28	Cat 5e	Orange	A	A
1L-C28	Cat 5e	White/Orange	B	B
1L-C28	Cat 5e	Green	A1	A1
1L-C28	Cat 5e	White/Green	B1	B1
1L-C28	Cat 5e	White/Brown	-	Neg

M1 Output Expander 8 Voltage / 8 Relay "Output Expander CN/1 (02)" Elk Products: ELK-M1XOVR Tag Number 0399

Relay NO (In) / 1

M1 Output Expander 8 Voltage / 8 Relay

Mech Room: 24 Vdc (Line-Power)

Source Cable(s)				Source Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A110	18-2	Mech Room: 24 Vdc (Line-Power)	8	1L-A110	18	Red	+24 Vdc	Out 1 NO	
1L-A110			White/CN-Panel/2	1L-A110	18	Black	24 Vdc Return	Return 1	
Load Cable(s)				Load Cable Wires					Device Connection
Cable ID	Style	Circuit Branch Name / Function	Cable Origin	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A39	22-2	Propane Shutoff Control	White/GP-Panel/1	1L-A39	22	Red	Switched	Out 1 COM	
				1L-A39	22	Black	Ground	1 (Vs)	

Relay NO (In) / 7

M1 Output Expander 8 Voltage / 8 Relay

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

Source Cable(s)				Source Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3	1L-A108	18	Red	+12 Vdc, Essential	Out 7 NO	
1L-A108			This Panel Only	1L-A108	18	Black	12 Vdc Return	Return 7	
Load Cable(s)				Load Cable Wires					Device Connection
Cable ID	Style	Circuit Branch Name / Function	Cable Origin	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A97	18-2	Outside Strobe Switched Power	This Panel Only	1L-A97	18	Red	Switched Power	Out 7 COM	
				1L-A97	18	Black	Ground	7 (Vs)	

Relay NO (In) / 8

M1 Output Expander 8 Voltage / 8 Relay

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

Source Cable(s)				Source Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3	1L-A108	18	Red	+12 Vdc, Essential	Out 8 NO	
1L-A108			This Panel Only	1L-A108	18	Black	12 Vdc Return	Return 8	
Load Cable(s)				Load Cable Wires					Device Connection
Cable ID	Style	Circuit Branch Name / Function	Cable Origin	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A98	18-2	Inside Strobe Switched Power	This Panel Only	1L-A98	18	Red	Switched Power	Out 8 COM	
				1L-A98	18	Black	Ground	8 (Vs)	

Relay Common / 1

M1 Output Expander 8 Voltage / 8 Relay

Propane Shutoff Control

Output Address = M1:(2a)017

Load Cable(s)				Load Cable Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A39	22-2	Propane Shutoff Control	8	1L-A39	22	Red	Switched	Out 1 COM	
1L-A39			White/GP-Panel/1	1L-A39	22	Black	Ground	1 (Vs)	
Source Cable(s)				Source Wires					Device Connection
Cable ID	Style	Circuit Branch Name / Function	Cable Origin	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A110	18-2	Mech Room: 24 Vdc (Line-Power)	White/CN-Panel/2	1L-A110	18	Red	+24 Vdc	Out 1 NO	
				1L-A110	18	Black	24 Vdc Return	Return 1	

Relay Common / 7

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2a)023

One other connection in panel.

<i>Load Cable(s)</i>			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A97 1L-A97	18-2	Outside Strobe Switched Power	3 This Panel Only

<i>Source Cable(s)</i>			
Cable ID	Style	Circuit Branch Name / Function	Cable Origin
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	This Panel Only

Outside Strobe Switched Power

<i>Load Cable Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A97	18	Red	Switched Power	Out 7 COM
1L-A97	18	Black	Ground	7 (Vs)

<i>Source Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A108	18	Red	+12 Vdc, Essential	Out 7 NO
1L-A108	18	Black	12 Vdc Return	Return 7

Relay Common / 8

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2a)024

One other connection in panel.

<i>Load Cable(s)</i>			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A98 1L-A98	18-2	Inside Strobe Switched Power	3 This Panel Only

<i>Source Cable(s)</i>			
Cable ID	Style	Circuit Branch Name / Function	Cable Origin
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	This Panel Only

Inside Strobe Switched Power

<i>Load Cable Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A98	18	Red	Switched Power	Out 8 COM
1L-A98	18	Black	Ground	8 (Vs)

<i>Source Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A108	18	Red	+12 Vdc, Essential	Out 8 NO
1L-A108	18	Black	12 Vdc Return	Return 8

Contact Pair / 2

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2a)018
Input Address = C1:X001

<i>Load Cable(s)</i>			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A66 1L-A66	22-4	Dark Outside (NO)	8 White/CN-Panel/2

Dark Outside (NO)

<i>Load Cable Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A66	22	Red	Switched	Out 2 NO
1L-A66	22	Black	Ground	Out 2 COM

Contact Pair / 3

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2a)019
Input Address = C1:X002

<i>Load Cable(s)</i>			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A67 1L-A66	22-4	Emerg Lights Manual (NO)	8 White/CN-Panel/2

Emerg Lights Manual (NO)

<i>Load Cable Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A66	22	White	Switched	Out 3 NO
1L-A66	22	Black	Ground	Out 3 COM

Contact Pair / 4

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2a)020
Input Address = C1:X003

<i>Load Cable(s)</i>			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A68 1L-A66	22-4	Emerg Lights On (NO)	8 White/CN-Panel/2

Emerg Lights On (NO)

<i>Load Cable Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A66	22	Green	Switched	Out 4 NO
1L-A66	22	Black	Ground	Out 4 COM

Discrete Output / 09

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2b)025

One other connection in panel.

<i>Load Cable(s)</i>			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A85 1L-A86	22-10	Outside Horn Code 1	3 This Panel Only

<i>Source Cable(s)</i>			
Cable ID	Style	Circuit Branch Name / Function	Cable Origin
1L-A110	18-2	Mech Room: 24 Vdc (Line-Power)	White/CN-Panel/2
1L-A39	22-2	Propane Shutoff Control	White/GP-Panel/1

Outside Horn Code 1

<i>Load Cable Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A86	22	Gray	Code 1	09

<i>Source Wires</i>				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A110	18	Red	+24 Vdc	Out 1 NO
1L-A110	18	Black	24 Vdc Return	Return 1
1L-A39	22	Red	Switched	Out 1 COM
1L-A39	22	Black	Ground	1 (Vs)

Discrete Output / 10

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2b)026

One other connection in panel.

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A86 1L-A86	22-10	Outside Horn Code 2	3 This Panel Only

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A86	22	Violet	Code 2	10
1L-A86	22	Black	Signal Return	-

Outside Horn Code 2

Discrete Output / 11

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2b)027

One other connection in panel.

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A87 1L-A86	22-10	Outside Horn Code 3	3 This Panel Only

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A86	22	Yellow	Code 3	11

Outside Horn Code 3

Discrete Output / 12

M1 Output Expander 8 Voltage / 8 Relay

Output Address = M1:(2b)028

One other connection in panel.

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A88 1L-A86	22-10	Outside Horn Code 4	3 This Panel Only

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A86	22	Orange	Code 4	12

Outside Horn Code 4

Data Bus

M1 Output Expander 8 Voltage / 8 Relay

Superior Address = M1:(1)J3

One other connection in panel.

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-C24 1L-C24	Cat 5 (M1)	M1G Data Bus - Output Expander CN/1 (02)	3 This Panel Only

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-C24	Cat 5e	Brown	+	+12
1L-C24	Cat 5e	Orange	A	A
1L-C24	Cat 5e	White/Orange	B	B
1L-C24	Cat 5e	Green	A1	A1
1L-C24	Cat 5e	White/Green	B1	B1
1L-C24	Cat 5e	White/Brown	-	NEG

M1G Data Bus - Output Expander CN/1 (02)

Cable ID	Style	Circuit Branch Name / Function	Cable Origin
1L-A110	18-2	Mech Room: 24 Vdc (Line-Power)	White/CN-Panel/2
1L-A39	22-2	Propane Shutoff Control	White/GP-Panel/1

Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A110	18	Red	+24 Vdc	Out 1 NO
1L-A110	18	Black	24 Vdc Return	Return 1
1L-A39	22	Red	Switched	Out 1 COM
1L-A39	22	Black	Ground	1 (Vs)

M1 Output Relay Board Elk Products: ELK-M1RB Tag Number 0055

Relay Common / 10

Foyer: Front Door Strike

M1 Output Relay Board

Output M1:(1x)010 and tbd
Output Address = M1:(1x)010

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
2C-A02 2C-A02	14-2	Foyer: Front Door Strike	34 Foyer	2C-A02	14	Red	Switched	Out 10 COM
				2C-A02	14	Black	Return	Return 10
Source Cable(s)				Source Wires				Device Connection
Cable ID	Style	Circuit Branch Name / Function	Cable Origin	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A89	22-10	Output Expander Drive 10	This Panel Only	1L-A89	22	Violet	Signal 10	10

Contact Pair, NO / 11

Study-Foyer-Door-Close-Call-L

M1 Output Relay Board

Output Address = M1:(1x)011

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A56 1L-A56>58	22-6	Study-Foyer-Door-Close-Call-L	39 White/CN-Panel/4	1L-A56>58	22	White	Switched	Out 11 NO
				1L-A56>58	22	Black	Return	Out 11 COM
Source Cable(s)				Source Wires				Device Connection
Cable ID	Style	Circuit Branch Name / Function	Cable Origin	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A89	22-10	Output Expander Drive 11	This Panel Only	1L-A89	22	Yellow	Signal 11	11

Contact Pair, NO / 12

Study-Foyer-Door-Open-Call-L

M1 Output Relay Board

Output Address = M1:(1x)012

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A57 1L-A56>58	22-6	Study-Foyer-Door-Open-Call-L	39 White/CN-Panel/4	1L-A56>58	22	Green	Signal	Out 12 NO
				1L-A56>58	22	Black	Return	Out 12 COM
Source Cable(s)				Source Wires				Device Connection
Cable ID	Style	Circuit Branch Name / Function	Cable Origin	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A89	22-10	Output Expander Drive 12	This Panel Only	1L-A89	22	Orange	Signal 12	12

Contact Pair, NO / 13

Study-Foyer-Door-Auto-Close-Call-L

M1 Output Relay Board

Output Address = M1:(1x)013

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A58 1L-A56>58	22-6	Study-Foyer-Door-Auto-Close-Call-L	39 White/CN-Panel/4	1L-A56>58	22	Brown	Signal	Out 13 NO
				1L-A56>58	22	Black	Return	Out 13 COM
Source Cable(s)				Source Wires				Device Connection
Cable ID	Style	Circuit Branch Name / Function	Cable Origin	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A89	22-10	Output Expander Drive 13	This Panel Only	1L-A89	22	Blue	Signal 13	13

Relay NO / 09

M1 Output Relay Board

Output tbd and M1:(1x)009
 Output Address = M1:(1x)009

Load Cable(s)			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A83 1L-A05	18-4	Water Shut-Off Valve (Close)	19 Mech Room

Source Cable(s)			
Cable ID	Style	Circuit Branch Name / Function	Cable Origin
1L-A05	18-4	Water Shut-Off Valve (Open)	Mech Room
1L-A89	22-10	Output Expander Drive 09	This Panel Only

Water Shut-Off Valve (Close)

Load Cable Wires				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A05	18	White	Close Command	Out 09 NO
1L-A05	18	Black	12 Vdc Return	Return 09

Source Wires				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A05	18	Red	Open Command	Out 09 NC
1L-A05	18	Black	12 Vdc Return	Return 09
1L-A89	22	Gray	Signal 09	09
1L-A89	22	Black	Return	-

Relay NC / 09

M1 Output Relay Board

Output tbd and M1:(1x)009
 Output Address = M1:(1x)009

Change

Load Cable(s)			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A05 1L-A05	18-4	Water Shut-Off Valve (Open)	19 Mech Room

Source Cable(s)			
Cable ID	Style	Circuit Branch Name / Function	Cable Origin
1L-A05	18-4	Water Shut-Off Valve (Close)	Mech Room
1L-A89	22-10	Output Expander Drive 09	This Panel Only

Water Shut-Off Valve (Open)

Load Cable Wires				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A05	18	Red	Open Command	Out 09 NC
1L-A05	18	Black	12 Vdc Return	Return 09

Source Wires				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A05	18	White	Close Command	Out 09 NO
1L-A05	18	Black	12 Vdc Return	Return 09
1L-A89	22	Gray	Signal 09	09
1L-A89	22	Black	Return	-

Control In / 09

M1 Output Relay Board

Output Address = M1:(1b)009

One other connection in panel.

Source Cable(s)			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A89 1L-A89	22-10	Output Expander Drive 09	3 This Panel Only

Load Cable(s)			
Cable ID	Style	Circuit Branch Name / Function	Cable Origin
1L-A05	18-4	Water Shut-Off Valve (Open)	Mech Room
1L-A05	18-4	Water Shut-Off Valve (Close)	Mech Room

Output Expander Drive 09

Source Wires				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A89	22	Gray	Signal 09	09
1L-A89	22	Black	Return	-

Load Cable Wires				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A05	18	Red	Open Command	Out 09 NC
1L-A05	18	White	Close Command	Out 09 NO
1L-A05	18	Black	12 Vdc Return	Return 09
1L-A05	18	Black	12 Vdc Return	Return 09

Control In / 10

M1 Output Relay Board

Output Address = M1:(1b)010

One other connection in panel.

Source Cable(s)			
Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A90 1L-A89	22-10	Output Expander Drive 10	3 This Panel Only

Load Cable(s)			
Cable ID	Style	Circuit Branch Name / Function	Cable Origin
2C-A02	14-2	Foyer: Front Door Strike	Foyer

Output Expander Drive 10

Source Wires				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
1L-A89	22	Violet	Signal 10	10

Load Cable Wires				Device Connection
Cable ID	AWG	Wire Color	Wire Function	
2C-A02	14	Red	Switched	Out 10 COM
2C-A02	14	Black	Return	Return 10

Control In / 11

One other connection in panel.

Output Expander Drive 11

M1 Output Relay Board

Output Address = M1:(1b)011

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A91 1L-A89	22-10	Output Expander Drive 11	3 This Panel Only	1L-A89	22	Yellow	Signal 11	11

Control In / 12

One other connection in panel.

Output Expander Drive 12

M1 Output Relay Board

Output Address = M1:(1b)012

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A92 1L-A89	22-10	Output Expander Drive 12	3 This Panel Only	1L-A89	22	Orange	Signal 12	12

Control In / 13

One other connection in panel.

Output Expander Drive 13

M1 Output Relay Board

Output Address = M1:(1b)013

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A93 1L-A89	22-10	Output Expander Drive 13	3 This Panel Only	1L-A89	22	Blue	Signal 13	13

Control In / 14

One other connection in panel.

Output Expander Drive 14

M1 Output Relay Board

Output Address = M1:(1b)014

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A94 1L-A89	22-10	Output Expander Drive 14	3 This Panel Only	1L-A89	22	Brown	Signal 14	14

Control In / 15

One other connection in panel.

Output Expander Drive 15

M1 Output Relay Board

Output Address = M1:(1b)015

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A95 1L-A89	22-10	Output Expander Drive 15	3 This Panel Only	1L-A89	22	Green	Signal 15	15

Control In / 16

One other connection in panel.

Output Expander Drive 16

M1 Output Relay Board

Output Address = M1:(1b)016

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A96 1L-A89	22-10	Output Expander Drive 16	3 This Panel Only	1L-A89	22	White	Signal 16	16

M1 Ethernet Interface Module Elk Products: ELK-M1XEP Tag Number
0269

Upstream (Port 1)

LAN (Tier 0 To M1G)

M1 Ethernet Interface Module

Superior Address = LAN:(0)01

<i>Upstream Cable</i>				<i>Upstream Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-C05 1L-C05	Cat 6	LAN (Tier 0 To M1G)	19 White/E-Rack/2	1L-C05	Cat 6	White/Orange	568B (LAN)	LAN Port

RS-232 Bus

One other connection in panel.

M1G RS-232 Primary Data Bus

M1 Ethernet Interface Module

<i>Bus Cable</i>				<i>Bus Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-C29 1L-C29	Serial Cable	M1G RS-232 Primary Data Bus	3 This Panel Only	1L-C29	Patch	RS-232 Cable	RS-232	RS-232

Power In (12 Vdc)

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

M1 Ethernet Interface Module

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-A108 1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3 This Panel Only	1L-A108 1L-A108	18	Red Black	+12 Vdc, Essential 12 Vdc Return	Tip (+12 Vdc) Barrel (Rtn)

M1 Data Bus Hub

"M1 Data Bus Hub 1"

Elk Products: ELK-M1DBH

Tag Number
0238

Data Bus In

One other connection in panel.

M1G Data Bus (Origin to White)

M1 Data Bus Hub

Inferior Address = M1:(1)X1

Upstream Cable				Upstream Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-C25 1L-C25	22-4	M1G Data Bus (Origin to White)	3 This Panel Only	1L-C25	22	Green	Data A	A	
				1L-C25	22	White	Data B	B	
				1L-C25	22	Black	Return	Neg	

Data Bus / Port 1

M1 Data Bus Hub

Superior Address = M1:(1)J1

Downstream Cable				Downstream Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-C26 1L-C26	Cat 5 (M1)	M1G Data Bus - Lighting RS-232 (01/02)	17 Yellow/CN-Panel/1	1L-C26	Cat 5e	Brown	+	Port 1 +12	
				1L-C26	Cat 5e	Orange	A	Port 1 A	
				1L-C26	Cat 5e	White/Orange	B	Port 1 B	
				1L-C26	Cat 5e	Green	A1	Port 1 A1	
				1L-C26	Cat 5e	White/Green	B1	Port 1 B1	
				1L-C26	Cat 5e	White/Brown	-	Port 1 Neg	

M1G Data Bus - Lighting RS-232 (01/02)

Data Bus / Port 2

M1 Data Bus Hub

Superior Address = M1:(1)J2

Downstream Cable				Downstream Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-C20 1L-C20	Cat 5 (M1)	M1G Data Bus - HVAC RS-232 (03)	18 Yellow/CN-Panel/H	1L-C20	Cat 5e	Brown	+	Port 2 +12	
				1L-C20	Cat 5e	Orange	A	Port 2 A	
				1L-C20	Cat 5e	White/Orange	B	Port 2 B	
				1L-C20	Cat 5e	Green	A1	Port 2 A1	
				1L-C20	Cat 5e	White/Green	B1	Port 2 B1	
				1L-C20	Cat 5e	White/Brown	-	Port 2 Neg	

M1G Data Bus - HVAC RS-232 (03)

Data Bus / Port 3

M1 Data Bus Hub

Superior Address = M1:(1)J3

Downstream Cable				Downstream Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-C24 1L-C24	Cat 5 (M1)	M1G Data Bus - Output Expander CN/1 (02)	3 This Panel Only	1L-C24	Cat 5e	Brown	+	Port 3 +12	
				1L-C24	Cat 5e	Orange	A	Port 3 A	
				1L-C24	Cat 5e	White/Orange	B	Port 3 B	
				1L-C24	Cat 5e	Green	A1	Port 3 A1	
				1L-C24	Cat 5e	White/Green	B1	Port 3 B1	
				1L-C24	Cat 5e	White/Brown	-	Port 3 Neg	

M1G Data Bus - Output Expander CN/1 (02)

Data Bus / Port 4

M1 Data Bus Hub

Superior Address = M1:(1)J4

Downstream Cable				Downstream Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-C27 1L-C27	Cat 5 (M1)	M1G Data Bus - Input Expander 1-1 (11)	3 This Panel Only	1L-C27	Cat 5e	Brown	+	Port 4 +12	
				1L-C27	Cat 5e	Orange	A	Port 4 A	
				1L-C27	Cat 5e	White/Orange	B	Port 4 B	
				1L-C27	Cat 5e	Green	A1	Port 4 A1	
				1L-C27	Cat 5e	White/Green	B1	Port 4 B1	
				1L-C27	Cat 5e	White/Brown	-	Port 4 Neg	

M1G Data Bus - Input Expander 1-1 (11)

Data Bus / Port 5

One other connection in panel.

M1G Data Bus - Input Expander 1-2 (12)

M1 Data Bus Hub

Superior Address = M1:(1)J5

<i>Downstream Cable</i>				<i>Downstream Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-C28 1L-C28	Cat 5 (M1)	M1G Data Bus - Input Expander 1-2 (12)	3 This Panel Only	1L-C28	Cat 5e	Brown	+	Port 5 +12
				1L-C28	Cat 5e	Orange	A	Port 5 A
				1L-C28	Cat 5e	White/Orange	B	Port 5 B
				1L-C28	Cat 5e	Green	A1	Port 5 A1
				1L-C28	Cat 5e	White/Green	B1	Port 5 B1
				1L-C28	Cat 5e	White/Brown	-	Port 5 Neg

Data Bus / Port 6

Foyer: Security Keypad Data (02)

M1 Data Bus Hub

Superior Address = M1:(1)J6

<i>Downstream Cable</i>				<i>Downstream Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
2C-A01 2C-A01	Cat 5 (M1)	Foyer: Security Keypad Data (02)	29 Foyer	2C-A01	Cat 5e	Brown	+	Port 6 +12
				2C-A01	Cat 5e	Orange	A	Port 6 A
				2C-A01	Cat 5e	White/Orange	B	Port 6 B
				2C-A01	Cat 5e	Green	A1	Port 6 A1
				2C-A01	Cat 5e	White/Green	B1	Port 6 B1
				2C-A01	Cat 5e	White/Brown	-	Port 6 Neg

Data Bus / Port 7

M1G Data Bus - Output Expander CN/2 (05)

M1 Data Bus Hub

Superior Address = M1:(1)J7

<i>Downstream Cable</i>				<i>Downstream Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-C14 1L-C14	Cat 5 (M1)	M1G Data Bus - Output Expander CN/2 (05)	8 White/CN-Panel/2	1L-C14	Cat 5e	Brown	+	Port 7 +12
				1L-C14	Cat 5e	Orange	A	Port 7 A
				1L-C14	Cat 5e	White/Orange	B	Port 7 B
				1L-C14	Cat 5e	Green	A1	Port 7 A1
				1L-C14	Cat 5e	White/Green	B1	Port 7 B1
				1L-C14	Cat 5e	White/Brown	-	Port 7 Neg

Data Bus / Port 8

M1G Data Bus (White to Orange)

M1 Data Bus Hub

Superior Address = M1:(1)J8
Inferior Address = M1:(2)X1

<i>Downstream Cable</i>				<i>Downstream Wires</i>				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
2H-C05 2H-C05	Cat 5 (M1)	M1G Data Bus (White to Orange)	24 Orange/CN-Panel/L	2H-C05	Cat 5e	Orange	A	Port 8 A
				2H-C05	Cat 5e	White/Orange	B	Port 8 B
				2H-C05	Cat 5e	White/Brown	-	Port 8 Neg

Data Bus / Port 9

[M1:(1)J9]

M1 Data Bus Hub

<i>Downstream Cable</i>			
Circuit ID Cable ID	Style	Location & Name	Length & Destination

Power In (12 Vdc)

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

M1 Data Bus Hub

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device
Circuit ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3 This Panel Only	1F-A04	14	Green	Common	Neg
1L-A108				1G-A13	14	Green	Common	Neg
				1L-A108	18	Red	+12 Vdc, Essential	+12
				1L-A108	18	Black	12 Vdc Return	Neg
				2H-A01	14	Green	Common	Neg

M1 Siren/Voice Driver "Alarm Speaker Driver, Outside" Elk Products: ELK-120 Tag Number
0177

Discrete In / +V1

M1 Siren/Voice Driver

Output Address = M1:(2b)025

Change

One other connection in panel.

Outside Horn Code 1

Source Cable(s)				Source Wires						
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
1L-A85	22-10	Outside Horn Code 1	3	1L-A86	22	Gray	Code 1	+V1		
1L-A86			This Panel Only							

Discrete In / +V2

M1 Siren/Voice Driver

Output Address = M1:(2b)026

One other connection in panel.

Outside Horn Code 2

Source Cable(s)				Source Wires						
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
1L-A86	22-10	Outside Horn Code 2	3	1L-A86	22	Violet	Code 2	+V2		
1L-A86			This Panel Only	1L-A86	22	Black	Signal Return	COM		

Discrete In / +S3

M1 Siren/Voice Driver

Output Address = M1:(2b)027

One other connection in panel.

Outside Horn Code 3

Source Cable(s)				Source Wires						
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
1L-A87	22-10	Outside Horn Code 3	3	1L-A86	22	Yellow	Code 3	+S3		
1L-A86			This Panel Only							

Discrete In / +B4

M1 Siren/Voice Driver

Output Address = M1:(2b)028

One other connection in panel.

Outside Horn Code 4

Source Cable(s)				Source Wires						
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
1L-A88	22-10	Outside Horn Code 4	3	1L-A86	22	Orange	Code 4	+B4		
1L-A86			This Panel Only							

Output

M1 Siren/Voice Driver

Speaker Set (3) Leg B

Load Cable(s)				Load Cable Wires						
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
2L-A50	18-4	Heat Pump Area: Alarm Speaker	62	2L-A50/51	18	Red	Speaker +	Common		
2L-A50/51			Heat Pump Area	2L-A50/51	18	Black	Speaker -	Leg B (>2Ω)		
2M-A04	18-4	Open Deck: Alarm Speaker	56	2M-A04	18	Red	Speaker +	Common		
2M-A04			Open Deck	2M-A04	18	Black	Speaker -	Leg B (>2Ω)		
2M-A05	18-4	Walkout Patio: Alarm Speaker	65	2M-A05	18	Red	Speaker +	Common		
2M-A05			Walkout Patio	2M-A05	18	Black	Speaker -	Leg B (>2Ω)		

Output

M1 Siren/Voice Driver

Speaker Set (3) Leg A

Load Cable(s)				Load Cable Wires						
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
2L-A01	18-4	Study Exterior: Alarm Speaker	46	1L-A165	18	Red	Speaker +	Leg A (>2Ω)		
2L-A01/02			Study Exterior	1L-A165	18	Black	Speaker -	Common		
2M-A01	18-4	South Yard (West): Alarm Speaker	80	2L-A01/02	18	Red	Speaker +	Leg A (>2Ω)		
2M-A01			South Yard (West)	2L-A01/02	18	Black	Speaker -	Common		
1L-A165	18-2	Alarm Ext Amplifier 8Ω Load	3	2M-A01	18	Red	Speaker +	Leg A (>2Ω)		
1L-A165			This Panel Only	2M-A01	18	Black	Speaker -	Common		

Power In (12 Vdc)

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

M1 Siren/Voice Driver

Source Cable(s)			Source Wires				Device Connection	
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3 This Panel Only	1L-A108	18	Red	+12 Vdc, Essential	Power (+)
1L-A108				18	Black	12 Vdc Return	Power (-)	

Power Dist Module, 12Vdc, 250ma "General 12 Vdc Power Distribution" Elk Products: ELK-PD9 Tag Number 0602

Power In (12 Vdc)

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

Power Dist Module, 12Vdc, 250ma

Input On

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3	1L-A108	18	Red	+12 Vdc, Essential	POS
1L-A108			This Panel Only	1L-A108	18	Black	12 Vdc Return	NEG

Power Output / 1

Power Dist Module, 12Vdc, 250ma

Output Change

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
3A-P01	22-4 (S)	Upper Storage Rm: Temperature (Power)	40	1F-S05	22	Red	+12 Vdc	POWER 1 - POS
3A-S01			Upper Storage Rm	1F-S05	22	Black	Common	POWER 1 - NEG
1L-P02	22-4 (S)	Mech Room: Temperature (Power)	17	1L-S02	22	Red	+12 Vdc	POWER 1 - POS
1L-S02			Mech Room	1L-S02	22	Black	Common	POWER 1 - NEG
1L-P05	22-4	Mech Room: Combustible Gas Detector (Power)	23	1L-S05	22	Red	+12 Vdc	POWER 1 - POS
1L-S05			Mech Room	1L-S05	22	Black	Common	POWER 1 - NEG
1F-P05	22-4 (S)	Green Utility Closet: Temperature (Power)	50	3A-S01	22	Red	+12 Vdc	POWER 1 - POS
1F-S05			Green Utility Closet	3A-S01	22	Black	Common	POWER 1 - NEG

Temperature Sensors (4) Group 1 (Power)

Power Output / 2

Power Dist Module, 12Vdc, 250ma

Output On

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
2M-P16	22-4 (S)	Hot Tub Area: Tub Water Temperature (Power)	74	1C-S04	22	Red	+12 Vdc	POWER 2 - POS
2M-S16			Hot Tub Area	1C-S04	22	Black	Common	POWER 2 - NEG
2F-P10	22-4 (S)	Screen Porch: Temperature (Power)	45	2F-S10	22	Red	+12 Vdc	POWER 2 - POS
2F-S10			Screen Porch	2F-S10	22	Black	Common	POWER 2 - NEG
1C-P04	22-4 (S)	Red Utility Closet: Temperature (Power)	55	2M-S16	22	Black	12 V Return	POWER 2 - POS
1C-S04			Red Utility Closet	2M-S16	22	Red	+12 Vdc	POWER 2 - NEG
4A-P20	22-4 (S)	Attic - ^ Dining Rm: Temperature (Power)	32	4A-S20	22	Red	+12 Vdc	POWER 2 - POS
4A-S20			Attic - ^ Dining Rm	4A-S20	22	Black	Power Return	POWER 2 - NEG

Temperature Sensors (4) Group 2 (Power)

Power Output / 3

Power Dist Module, 12Vdc, 250ma

Output On

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
2C-P11	22-4 (S)	Great Room: Temperature (Power)	45	2B-S09	22	Red	+12 Vdc	POWER 3 - POS
2C-S11			Great Room	2B-S09	22	Black	Common	POWER 3 - NEG
2B-P09	22-4 (S)	Master Bath: Tub Temperature (Power)	56	2C-S11	22	Red	+12 Vdc	POWER 3 - POS
2B-S09			Master Bath	2C-S11	22	Black	Common	POWER 3 - NEG

Temperature Sensors (2) Group 3 (Power)

Power Output / 5

Power Dist Module, 12Vdc, 250ma

Output On

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-P03	22-6	Mech Room: CO Detector (Power)	17	1L-S03	22	Red	+12 Vdc	POWER 5 - POS
1L-S03			Mech Room	1L-S03	22	Black	12 V Return	POWER 5 - NEG

Mech Room: CO Detector (Power)

Power Output / 6

Mech Room: Microphone 1 Power

Power Dist Module, 12Vdc, 250ma

		<i>Load Cable(s)</i>				<i>Load Cable Wires</i>				<i>Device</i>
<i>Output</i>		Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
On		1L-P19 1L-P19	22-4 (S)	Mech Room: Microphone 1 Power	19 White/E-Rack/2	1L-P19 1L-P19	22 22	Red Black	+12 Vdc 12 Vdc Return	POWER 6 - POS POWER 6 - NEG

Power Output / 7

Mech Room: Microphone 2 Power

Power Dist Module, 12Vdc, 250ma

		<i>Load Cable(s)</i>				<i>Load Cable Wires</i>				<i>Device</i>
<i>Output</i>		Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
On		1L-P20 1L-P19	22-4 (S)	Mech Room: Microphone 2 Power	19 White/E-Rack/2	1L-P19	22	White	+12 Vdc	POWER 7 - POS

Power Dist Module, 12Vdc, 400ma (1 of 2) "Inside Strobe 12 Vdc Power Distribution" Elk Products: ELK-PD9HC Tag Number 0658

Power In (12 Vdc)

One other connection in panel.

Inside Strobe Switched Power

Power Dist Module, 12Vdc, 400ma #1

Output Address = M1:(2a)024

Source Cable(s)				Source Wires						Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
1L-A98	18-2	Inside Strobe Switched Power	3	1L-A98	18	Red	Switched Power	POS		
1L-A98			This Panel Only	1L-A98	18	Black	Ground	NEG		

Power Output / 1

Power Dist Module, 12Vdc, 400ma #1

Output M1:(2a)024

Red & Blue: Inside Strobe Pilot

Load Cable(s)				Load Cable Wires						Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
1C-A03	22-4 (S)	Red: Inside Strobe Pilot	57	1C-A03	22	Red	Strobe Signal	POWER 1 - POS		
1C-A03			Red/CN-Panel/D	1C-A03	22	Black	Return	POWER 1 - NEG		
1G-A12	22-4 (S)	Blue: Inside Strobe Pilot	45	1G-A12	22	Red	Strobe Signal	POWER 1 - POS		
1G-A12			Blue/CN-Panel/D	1G-A12	22	Black	Return	POWER 1 - NEG		

Power Output / 2

Power Dist Module, 12Vdc, 400ma #1

Output M1:(2a)024

Upper Bar: Strobe

Load Cable(s)				Load Cable Wires						Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
3A-A86	18-4	Upper Bar: Strobe	39	3A-A85/86	18	Green	Signal	POWER 2 - POS		
3A-A85/86			Upper Bar	3A-A85/86	18	White	Return	POWER 2 - NEG		

Power Output / 3

Power Dist Module, 12Vdc, 400ma #1

Output M1:(2a)024

Garage: Alarm Strobe

Load Cable(s)				Load Cable Wires						Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
2H-A64	18-4	Garage: Alarm Strobe	24	2H-A63/64	18	Green	Signal	POWER 3 - POS		
2H-A63/64			Garage	2H-A63/64	18	White	Return	POWER 3 - NEG		

Power Output / 4

Power Dist Module, 12Vdc, 400ma #1

Output M1:(2a)024

Fitness Room: Alarm Strobe

Load Cable(s)				Load Cable Wires						Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
1D-A02	18-4	Fitness Room: Alarm Strobe	25	1D-A01/02	18	Green	Switched	POWER 4 - POS		
1D-A01/02			Fitness Room	1D-A01/02	18	White	Return	POWER 4 - NEG		

Power Output / 5

Power Dist Module, 12Vdc, 400ma #1

Output M1:(2a)024

Mud Room Hall: Alarm Strobe

Load Cable(s)				Load Cable Wires						Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection		
2E-A04	18-4	Mud Room Hall: Alarm Strobe	19	2E-A02	18	Green	Switched	POWER 5 - POS		
2E-A02			Mud Room Hall	2E-A02	18	White	Return	POWER 5 - NEG		

Power Dist Module, 12Vdc, 400ma (2 of 2) "Outside Strobe +12 Vdc Power Distribution" Elk Products: ELK-PD9HC Tag Number 0701

Power In (12 Vdc)

One other connection in panel.

Outside Strobe Switched Power

Power Dist Module, 12Vdc, 400ma #2

Output Address = M1:(2a)023

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A97	18-2	Outside Strobe Switched Power	3	1L-A97	18	Red	Switched Power	POS
1L-A97			This Panel Only	1L-A97	18	Black	Ground	NEG

Power Output / 1

Study Exterior: Alarm Strobe (ext)

Power Dist Module, 12Vdc, 400ma #2

Output M1:(2a)023

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
2L-A02	18-4	Study Exterior: Alarm Strobe (ext)	46	2L-A01/02	18	White	Switched	POWER 1 - POS
2L-A01/02			Study Exterior	2L-A01/02	18	Green	Return	POWER 1 - NEG

Power Output / 2

Driveway Gate: Alarm Strobe (ext)

Power Dist Module, 12Vdc, 400ma #2

Output M1:(2a)023

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
2L-A03	18-4	Driveway Gate: Alarm Strobe (ext)	111	2L-A03	18	Red	Switched	POWER 2 - POS
2L-A03			Driveway Gate	2L-A03	18	Black	Return	POWER 2 - NEG

Power Output / 3

Heat Pump Area: Alarm Strobe (ext)

Power Dist Module, 12Vdc, 400ma #2

Output M1:(2a)023

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
2L-A51	18-4	Heat Pump Area: Alarm Strobe (ext)	62	2L-A50/51	18	Green	Signal	POWER 3 - POS
2L-A50/51			Heat Pump Area	2L-A50/51	18	White	Return	POWER 3 - NEG

M1 Audio Amplifier	"Inside Alarm Speaker Amplifier #1"	Elk Products: ELK-800	Tag Number 0113
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Audio In

One other connection in panel.

White: Alarm Audio Line Level Drive

M1 Audio Amplifier

Output Address = M1:1

<i>Source Cable(s)</i>				<i>Source Wires</i>					Device Connection
Circuit ID <small>Cable ID</small>	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function		
1L-C30	22-2 (S)	White: Alarm Audio Line Level Drive	3	1L-C30	22	Red	Terminal B	Input (A)	
1L-C30			This Panel Only	1L-C30	22	Black	Terminal A	Input (B)	

Output

One other connection in panel.

"White" Alarm Amplifier Output

M1 Audio Amplifier

<i>Load Cable(s)</i>				<i>Load Cable Wires</i>					Device Connection
Circuit ID <small>Cable ID</small>	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function		
1L-A164	18-2	"White" Alarm Amplifier Output	3	1L-A164	18	Red	Speaker +	Speaker (A)	
1L-A164			This Panel Only	1L-A164	18	Black	Speaker -	Speaker (B)	

Power In (12 Vdc)

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

M1 Audio Amplifier

<i>Source Cable(s)</i>				<i>Source Wires</i>					Device Connection
Circuit ID <small>Cable ID</small>	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function		
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3	1L-A108	18	Red	+12 Vdc, Essential	Power (A)	
1L-A108			This Panel Only	1L-A108	18	Black	12 Vdc Return	Power (B)	

Transformer, 70v Audio, 4Ω, 10W

"Alarm Speaker 70v Step-up Transformer"

Edcor: WS15-70 Tag Number
1176

Audio In

One other connection in panel.

"White" Alarm Amplifier Output

Transformer, 70v Audio, 4Ω, 10W

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A164 1L-A164	18-2	"White" Alarm Amplifier Output	3 This Panel Only	1L-A164 1L-A164	18 18	Red Black	Speaker + Speaker -	4Ω (6) Com (8)

Audio Out

"White" Interior Speaker Set

Transformer, 70v Audio, 4Ω, 10W

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
3A-A85 3A-A85/86	18-4	Upper Bar: Alarm Speaker	39 Upper Bar	1D-A01/02 1D-A01/02	18 18	Red Black	Speaker + Speaker -	10W (2) Com (4)
2H-A63 2H-A63/64	18-4	Garage: Alarm Speaker	24 Garage	2E-A02 2E-A02	18 18	Red Black	Speaker + Speaker -	10W (2) Com (4)
2E-A02 2E-A02	18-4	Mud Room Hall: Alarm Speaker	19 Mud Room Hall	2H-A63/64 2H-A63/64	18 18	Red Black	Speaker + Speaker -	10W (2) Com (4)
1D-A01 1D-A01/02	18-4	Fitness Room: Alarm Speaker	25 Fitness Room	3A-A85/86 3A-A85/86	18 18	Red Black	Speaker + Speaker -	10W (2) Com (4)

9-Zone Combiner / Indicator (1 of 2) "Trouble Indicator, Mech Room" JTB: 1006-1 Tag Number 1060

OR (1-9) Input / 1

Mech Room: CO Detector (Trouble)

9-Zone Combiner / Indicator #1

Source Cable(s)				Source Wires				
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-S06	22-6	Mech Room: CO Detector (Trouble)	17	1L-S03	22	Blue	CO Trouble Signal	In 1
1L-S03			Mech Room	1L-S03	22	White	Signal Return	Neg

OR (1-9) Input / 2

Mech Room: Combustible Gas Detector (Trouble)

9-Zone Combiner / Indicator #1

Source Cable(s)				Source Wires				
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-S07	22-4	Mech Room: Combustible Gas Detector (Trouble)	23	1L-S05	22	White	Gas Trouble Signal	In 2
1L-S05			Mech Room	1L-S05	22	Black	Common	Neg

OR (1-9) Input / 3

Generator Trouble (NC)

9-Zone Combiner / Indicator #1

Source Cable(s)				Source Wires				
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A44	22-4	Generator Trouble (NC)	18	1L-A44/49	22	White	Signal	In 3
1L-A44/49			Yellow/Gen-Xfer-Switch	1L-A44/49	22	Black	Return	Neg

OR (1-9) Input / 4

Study-Door-Controller-Trouble-L

9-Zone Combiner / Indicator #1

Source Cable(s)				Source Wires				
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A51	22-4	Study-Door-Controller-Trouble-L	39	1L-A50/51	22	Green	Signal	In 4
1L-A50/51			White/CN-Panel/4	1L-A50/51	22	Black	Return	Neg

OR (1-9) Input / 5

UPS Trouble (NO)

9-Zone Combiner / Indicator #1

Output Address = C1:Y212

Source Cable(s)				Source Wires				
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A64	22-6	UPS Trouble (NO)	8	1L-A61	22	Blue	Signal	In 5
1L-A61			White/CN-Panel/2	1L-A61	22	Black	Return	Neg

OR (1-9) Input / 6

Emerg Power Control Trouble (EPC)

9-Zone Combiner / Indicator #1

Output Address = C1:Y213

Source Cable(s)				Source Wires				
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A74	22-6	Emerg Power Control Trouble (EPC)	8	1L-A61	22	Red	Switched	In 6
1L-A61			White/CN-Panel/2	1L-A61	22	Black	Return	Neg

OR (1-9) Input / 7

UPS Replace Battery (NO)

9-Zone Combiner / Indicator #1

Output Address = 4

Source Cable(s)				Source Wires				
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A73	22-2	UPS Replace Battery (NO)	19	1L-A73	22	Red	Switched	In 7
1L-A73			White/E-Rack/2	1L-A73	22	Black	Return	Neg

OR (1-9) Output

One other connection in panel.

Mech Room: Service Trouble

9-Zone Combiner / Indicator #1

Input Address = M1:(C)180

<i>Load Cable(s)</i>				<i>Load Cable Wires</i>				Device
Circuit ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
1L-A139	22-2	Mech Room: Service Trouble	3 <i>This Panel Only</i>	1L-A139	22	Red	Signal	Out 1-9
1L-A139				1L-A139	22	Black	Return	Neg

Power In (12 Vdc)

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

9-Zone Combiner / Indicator #1

<i>Source Cable(s)</i>				<i>Source Wires</i>				Device
Circuit ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Connection
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3 <i>This Panel Only</i>	1L-A108	18	Red	+12 Vdc, Essential	+12 V
1L-A108				1L-A108	18	Black	12 Vdc Return	Neg

9-Zone Combiner / Indicator (2 of 2) "Zone Combiner" JTB: 1006-1 Tag Number 1121

OR (1-3) Input / 1

Dining Room: Window (L)

9-Zone Combiner / Indicator #2

Source Cable(s)				Source Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
2C-S03	22-4	Dining Room: Window (L)	22	2C-S03>05	22	White	Left / Middle	In 1	
2C-S03>05			Dining Room	2C-S03>05	22	Black	Signal Return	Neg	

OR (1-3) Input / 2

Dining Room: Window (C)

9-Zone Combiner / Indicator #2

Source Cable(s)				Source Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
2C-S04	22-4	Dining Room: Window (C)	22	2C-S03>05	22	Green	Middle / Right	In 2	
2C-S03>05			Dining Room	2C-S03>05	22	Black	Signal Return	Neg	

OR (1-3) Input / 3

Dining Room: Window (R)

9-Zone Combiner / Indicator #2

Source Cable(s)				Source Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
2C-S05	22-4	Dining Room: Window (R)	22	2C-S03>05	22	Red	Signal	In 3	
2C-S03>05			Dining Room	2C-S03>05	22	Black	Signal Return	Neg	

OR (1-3) Output

One other connection in panel.

Dining Room: Windows (All)

9-Zone Combiner / Indicator #2

Input Address = M1:(B)163

Load Cable(s)				Load Cable Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A100	22-2	Dining Room: Windows (All)	3	1L-A100	22	Red	Signal	Out 1-3	
1L-A100			This Panel Only	1L-A100	22	Black	Return	Neg	

Power In (12 Vdc)

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

9-Zone Combiner / Indicator #2

Source Cable(s)				Source Wires					Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection	
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3	1L-A108	18	Red	+12 Vdc, Essential	+12 V	
1L-A108			This Panel Only	1L-A108	18	Black	12 Vdc Return	Neg	

9-Zone Isolated Combiner

"Down Spout Tamper Detector"

JTB: 1006-2
Tag Number
0335

OR (1-9) Input / 1

Attic: Down Spout Tamper #1

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S01	22-6	Attic: Down Spout Tamper #1	54	4A-S01>09	22	Red	Down Spout	In 1
4A-S01>09			Attic (@Tamper Cluster A)	4A-S01>09	22	Black	Gutter @ Ground	Neg

OR (1-9) Input / 2

Attic: Down Spout Tamper #2

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S02	22-6	Attic: Down Spout Tamper #2	54	4A-S01>09	22	White	Down Spout	In 2
4A-S01>09			Attic (@Tamper Cluster A)	4A-S01>09	22	Black	Gutter @ Ground	Neg

OR (1-9) Input / 3

Attic: Down Spout Tamper #3

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S03	22-2	Attic: Down Spout Tamper #3	58	4A-S03	22	Red	Down Spout	In 3
4A-S03			Attic (@Tamper Cluster B)	4A-S03	22	Black	Gutter @ Ground	Neg

OR (1-9) Input / 4

Attic: Down Spout Tamper #4

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S04	22-4	Attic: Down Spout Tamper #4	44	4A-S04/05	22	Red	Down Spout	In 4
4A-S04/05			Attic (@Tamper Cluster C)	4A-S04/05	22	Black	Gutter @ Ground	Neg

OR (1-9) Input / 5

Attic: Down Spout Tamper #5

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S05	22-4	Attic: Down Spout Tamper #5	44	4A-S04/05	22	White	Down Spout	In 5
4A-S04/05			Attic (@Tamper Cluster C)	4A-S04/05	22	Black	Gutter @ Ground	Neg

OR (1-9) Input / 6

Attic: Down Spout Tamper #6

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S06	22-4	Attic: Down Spout Tamper #6	31	4A-S06/07	22	Red	Down Spout	In 6
4A-S06/07			Attic (@Tamper Cluster D)	4A-S06/07	22	Black	Gutter @ Ground	Neg

OR (1-9) Input / 7

Attic: Down Spout Tamper #7

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S07	22-4	Attic: Down Spout Tamper #7	31	4A-S06/07	22	White	Down Spout	In 7
4A-S06/07			Attic (@Tamper Cluster D)	4A-S06/07	22	Black	Gutter @ Ground	Neg

OR (1-9) Input / 8

Attic: Down Spout Tamper #8

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S08 4A-S01>09	22-6	Attic: Down Spout Tamper #8	54 Attic (@Tamper Cluster A)	4A-S01>09 4A-S01>09	22 22	Green Black	Down Spout Gutter @ Ground	In 8 Neg

OR (1-9) Input / 9

Attic: Down Spout Tamper #9

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
4A-S09 4A-S01>09	22-6	Attic: Down Spout Tamper #9	54 Attic (@Tamper Cluster A)	4A-S01>09 4A-S01>09	22 22	Black Brown	Gutter @ Ground Down Spout	In 9 Neg

OR (1-9) Output

One other connection in panel.

Down Spout Tamper

9-Zone Isolated Combiner

Input Address = M1:(C)184

Load Cable(s)				Load Cable Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A99 1L-A99	22-2	Down Spout Tamper	3 This Panel Only	1L-A99 1L-A99	22 22	Red Black	Down Spout 1 Return	1-9 (+) 7-9 (-)

Power In (12 Vdc)

12 Vdc Down Spout Power (UPS Powered)

9-Zone Isolated Combiner

Source Cable(s)				Source Wires				Device Connection
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-A111 1L-A111	18-2	12 Vdc Down Spout Power (UPS Powered)	8 White/CN-Panel/2	1L-A111 1L-A111	18 18	Red Black	+12V DC 12V DC Return	+12 V Neg

Resistor, 8Ω, 3W	"External Alarm Speaker Leg A Dummy 8Ω Load"	JTB (Part TBD)	Tag Number 1178
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Input

One other connection in panel.

Alarm Ext Amplifier 8Ω Load

Resistor, 8Ω, 3W

Circuit ID Cable ID	Style	Location & Name	Source Cable(s)	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Source Wires	Device Connection
1L-A165	18-2	Alarm Ext Amplifier 8Ω Load		3	1L-A165	18	Red	Speaker +		A
1L-A165				This Panel Only	1L-A165	18	Black	Speaker -		B



Power Connection Point "12 Vdc Power Connection Point (UPS)" Field Splice Tag Number na

Power In

Critical Power - White Panels (12 Vdc)

Power Connection Point

<i>Source Cable(s)</i>				<i>Source Wires</i>				<i>Device Connection</i>
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-A08	18-2	Critical Power - White Panels (12 Vdc)	17	1L-A08	18	Red	+12 Vdc	Supply
1L-A08			Multiple	1L-A08	18	Black	12 Vdc Return	Return

Power Output / 1

9 other connections in panel.

White/CN 1: 12 Vdc Essential Power

Power Connection Point

<i>Load Cable(s)</i>				<i>Load Cable Wires</i>				<i>Device Connection</i>
Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	
1L-A108	18-2	White/CN 1: 12 Vdc Essential Power	3	1L-A108	18	Red	+12 Vdc, Essential	Load 1
1L-A108			This Panel Only	1L-A108	18	Black	12 Vdc Return	Return 1

Spare Cable Group

Tag Number
na

Not Connected / 1

spare (White CN/1 to White CN/2)

Spare Cable Group

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1L-A112 1L-A112	18-2	spare (White CN/1 to White CN/2)	8 White/CN-Panel/2

Not Connected / 2

Garage: spare

Spare Cable Group

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
2H-S08 2H-S08	22-2	Garage: spare	24 Orange/CN-Panel/L					

Not Connected / 3

(spare)

Spare Cable Group

Circuit ID Cable ID	Style	Location & Name	Length & Destination
1F-C11 1F-C11	Cat 5e	(spare)	49 Green/CN-Panel

Not Connected / 4

Great Room: spare to Fireplace Valve

Spare Cable Group

Circuit ID Cable ID	Style	Location & Name	Length & Destination
2C-A09 2C-A09	18-4	Great Room: spare to Fireplace Valve	35 Great Room

Not Connected / 5

Upper Storage Rm: spare cat5e 1 @ Cable Port 3A-10

Spare Cable Group

Circuit ID Cable ID	Style	Location & Name	Length & Destination
3A-C14 3A-C14	Cat 5e	Upper Storage Rm: spare cat5e 1 @ Cable Port 3A-10	32 Upper Storage Rm (Cable Port 10)

Not Connected / 6

Mech Room: spare White/CN1 to White CN/2

Spare Cable Group

Circuit ID Cable ID	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-C51 1L-C51	18-4	Mech Room: spare White/CN1 to White CN/2	8 White/CN-Panel/2					

Outlet, Duplex (15A)	"Line Power"	(Part TBD)	Tag Number 0303
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Power In (120 Vac)

White & Yellow Panels Line Power

Outlet, Duplex (15A)

Circuit ID <small>Cable ID</small>	Style	Location & Name	Length & Destination	Cable ID	AWG	Wire Color	Wire Function	Device Connection
1L-37	14-2	White & Yellow Panels Line Power	50	1L-37	14	Black	Hot	Hot
1L-37			Multiple	1L-37	14	White	Neutral	Neutral