

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|---|--|---|--|
| 1A-13 To/From: BR 4/5 Bath 12-3 | | | |
| White "Hot (Pole 1)" | 1A-13 BR 4/5 Bath: Heater | "Bedroom 4/5 Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #1 Power Output / Neutral |
| Black "Hot (Pole 2)" | 1A-13 BR 4/5 Bath: Heater | "Bedroom 4/5 Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #1 Power Output / Hot |
| Red "Switched (Pole 2)" | 1A-13 BR 4/5 Bath: Heater | "Bedroom 4/5 Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #1 Power Output / 2 (Output) |
| 1L-11 To/From: "Yellow/CB-Panel/OffP" 14-2 | | | |
| White "Hot (Pole 1)" | 1L-11 (Lower Bath: Heater) | "Bedroom 4/5 Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #1 NO Input / 1 (Output) |
| Black "Hot (Pole 2)" | 1L-11 (Lower Bath: Heater) | "Bedroom 4/5 Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #1 NO Input / Neutral |
| 1L-12 To/From: "Yellow/CB-Panel/OffP" 14-2 | | | |
| White "Hot (Pole 1)" | 1L-12 (Master Bath: Heater) | "Master Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #2 NO Input / 1 (Output) |
| Black "Hot (Pole 2)" | 1L-12 (Master Bath: Heater) | "Master Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #2 NO Input / Neutral |
| 1L-16 To/From: "Yellow/CB-Panel/OffP" 14-2 | | | |
| White "Neutral" | 1L-16 (Hot Water Recirc. Pumps) | "Hot Water Recirc Pump (S) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #8 NO Input / Neutral |
| | 1L-16 (Hot Water Recirc. Pumps) | "Hot Water Recirc Pump (N) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #7 NO Input / Neutral |
| | 1L-16 (Hot Water Recirc. Pumps) | "Towel Warmer Pump, Master Bath Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #6 NO Input / Neutral |
| Black "Hot" | 1L-16 (Hot Water Recirc. Pumps) | "Hot Water Recirc Pump (S) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #8 NO Input / NO (T5) |
| | 1L-16 (Hot Water Recirc. Pumps) | "Hot Water Recirc Pump (N) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #7 NO Input / NO (T5) |
| | 1L-16 (Hot Water Recirc. Pumps) | "Towel Warmer Pump, Master Bath Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #6 NO Input / NO (T5) |
| 1L-22 To/From: "Yellow/CB-Panel/Line" & Another 14-2 | | | |
| White "Neutral" | 1L-22 Mech Room: Blower & Fan Group | "Exhaust, Great Room (High) Relay" 1 | Relay, DPDT, 24 Vdc (Plug-In) NO Input / Neutral |
| | 1L-22 Mech Room: Blower & Fan Group | "Exhaust, Great Room (Low) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #3 NO Input / Neutral |
| | 1L-22 Mech Room: Blower & Fan Group | "Blower, Great Room Fireplace Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #4 NO Input / Neutral |
| | 1L-22 Mech Room: Blower & Fan Group | "Instrument Heaters Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #5 NO Input / Neutral |

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|------------------------------|--|---|--|
| Black "Hot" | 1L-22 Mech Room: Blower & Fan Group | "Exhaust, Great Room (High) Relay" 1 | Relay, DPDT, 24 Vdc (Plug-In) NO Input / NO 1 (T4) |
| | 1L-22 Mech Room: Blower & Fan Group | "Exhaust, Great Room (Low) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #3 NO Input / NO (T5) |
| | 1L-22 Mech Room: Blower & Fan Group | "Blower, Great Room Fireplace Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #4 NO Input / NO (T5) |
| | 1L-22 Mech Room: Blower & Fan Group | "Instrument Heaters Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #5 NO Input / NO (T5) |
| 1L-35 | | To/From: Mech Room | 14-2 |
| White "Neutral" | 1L-35 Standby Lighting | "Standby Lighting Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #1 Power Output / Neutral |
| Black "Switched" | 1L-35 Standby Lighting | "Standby Lighting Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #1 Power Output / Com (T7) |
| 1L-36 | | To/From: No External Connections | 14-2 |
| Black "Hot" | 1L-36 (Standby Lighting) | "Standby Lighting Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #1 NO Input / NO (T5) |
| | 1L-36 (Standby Lighting) | "Standby Lighting Breaker, 2A" 1 | Circuit Breaker, DIN Rail, 2A Power Output / Load |
| 1L-43 | | To/From: "White/E-Rack/2" | 14-2 |
| White "Neutral" | 1L-43 UPS Secondary Loads (Fixed) | "UPS Secondary Loads Breaker, 10A" 1 | Circuit Breaker, DIN Rail, 10A Power In (120 Vac) / Neutral |
| | 1L-43 UPS Secondary Loads (Fixed) | "Standby Lighting Breaker, 2A" 1 | Circuit Breaker, DIN Rail, 2A Power In (120 Vac) / Neutral |
| Black "Hot" | 1L-43 UPS Secondary Loads (Fixed) | "UPS Secondary Loads Breaker, 10A" 1 | Circuit Breaker, DIN Rail, 10A Power In (120 Vac) / Line |
| | 1L-43 UPS Secondary Loads (Fixed) | "Standby Lighting Breaker, 2A" 1 | Circuit Breaker, DIN Rail, 2A Power In (120 Vac) / Line |
| 1L-44 | | To/From: Mech Room (@Water Heaters) | 10-2 |
| White "Hot (Pole 1)" | 1L-44 Mech Room: Water Heater (South) | "Water Heater (South) 50A SSR" 1 | Relay, Solid State (50A) #1 Power Output / Neutral |
| Black "Switched (Pole 2)" | 1L-44 Mech Room: Water Heater (South) | "Water Heater (South) 50A SSR" 1 | Relay, Solid State (50A) #1 Power Output / 2 (Output) |
| 1L-45 | | To/From: Mech Room (@Water Heaters) | 10-2 |
| White "Hot (Pole 1)" | 1L-45 Mech Room: Water Heater (North) | "Water Heater (North) 50A SSR" 1 | Relay, Solid State (50A) #2 Power Output / Neutral |
| Black "Switched (Pole 2)" | 1L-45 Mech Room: Water Heater (North) | "Water Heater (North) 50A SSR" 1 | Relay, Solid State (50A) #2 Power Output / 2 (Output) |
| 1L-46 | | To/From: "Yellow/CB-Panel/OffP" | 10-2 |
| White "Hot (Pole 1)" | 1L-46 (Water Heater (South)) | "Water Heater (South) 50A SSR" 1 | Relay, Solid State (50A) #1 NO Input / 1 (Output) |
| Black "Hot (Pole 2)" | 1L-46 (Water Heater (South)) | "Water Heater (South) 50A SSR" 1 | Relay, Solid State (50A) #1 NO Input / Neutral |

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|---|--------------------------------------|---|---|
| 1L-47 To/From: "Yellow/CB-Panel/OffP" 10-2 | | | |
| White "Hot (Pole 1)" | 1L-47 (Water Heater (North)) | "Water Heater (North) 50A SSR" 1 | Relay, Solid State (50A) #2 NO Input / 1 (Output) |
| Black "Hot (Pole 2)" | 1L-47 (Water Heater (North)) | "Water Heater (North) 50A SSR" 1 | Relay, Solid State (50A) #2 NO Input / Neutral |
| 1L-49 To/From: "Yellow/CB-Panel/OffP" 14-2 | | | |
| White "Hot (Pole 1)" | 1L-49 (Upper Bath: Heater) | "Upper Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #3 NO Input / 1 (Output) |
| Black "Hot (Pole 2)" | 1L-49 (Upper Bath: Heater) | "Upper Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #3 NO Input / Neutral |
| 1L-55 To/From: "White/E-Rack/3" & Others 14-2 | | | |
| White "Neutral" | 1L-55 UPS Loads 2 | "UPS Secondary Loads 25A SSR" 2 | Relay, Solid State (25A) #4 Power Output / Neutral |
| Black "Hot" | 1L-55 UPS Loads 2 | "UPS Secondary Loads 25A SSR" 2 | Relay, Solid State (25A) #4 Power Output / 2 (Output) |
| 1L-58 To/From: Mech Room (@Water Heaters) 14-2 | | | |
| White "Neutral" | 1L-58 Hot Water Recirc Pump (S) | "Hot Water Recirc Pump (S) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #8 Power Output / Neutral |
| Black "Switched" | 1L-58 Hot Water Recirc Pump (S) | "Hot Water Recirc Pump (S) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #8 Power Output / Com (T7) |
| 1L-59 To/From: Mech Room (@Water Heaters) 14-2 | | | |
| White "Neutral" | 1L-59 Hot Water Recirc Pump (N) | "Hot Water Recirc Pump (N) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #7 Power Output / Neutral |
| Black "Switched" | 1L-59 Hot Water Recirc Pump (N) | "Hot Water Recirc Pump (N) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #7 Power Output / Com (T7) |
| 1L-60 To/From: Mech Room (@Furnace (South)) 14-2 | | | |
| White "Neutral" | 1L-60 Great Room Fireplace Blower | "Blower, Great Room Fireplace Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #4 Power Output / Neutral |
| Black "Switched" | 1L-60 Great Room Fireplace Blower | "Blower, Great Room Fireplace Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #4 Power Output / Com (T7) |
| 1L-61 To/From: Mech Room (@Furnace (North)) 14-2 | | | |
| White "Neutral" | 1L-61 Propane Shut-Off Valve | "Propane Shut-Off Valve Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #2 Power Output / Neutral |
| Black "Switched" | 1L-61 Propane Shut-Off Valve | "Propane Shut-Off Valve Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #2 Power Output / Com (T7) |

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|---|---|---|--|
| 1L-62 To/From: No External Connections 14-2 | | | |
| Black "Hot" | 1L-62 (UPS Secondary Loads) | "UPS Secondary Loads 25A SSR" 1 | Relay, Solid State (25A) #4 NO Input / 1 (Output) |
| | 1L-62 (UPS Secondary Loads) | "Propane Shut-Off Valve Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #2 NO Input / NO (T5) |
| | 1L-62 (UPS Secondary Loads) | "UPS Secondary Loads Breaker, 10A" 1 | Circuit Breaker, DIN Rail, 10A Power Output / Load |
| 1L-64 To/From: Mech Room (@Water Heaters) 14-2 | | | |
| White "Neutral" | 1L-64 Master Bath Towel Warmer Pump | "Towel Warmer Pump, Master Bath Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #6 Power Output / Neutral |
| Black "Switched" | 1L-64 Master Bath Towel Warmer Pump | "Towel Warmer Pump, Master Bath Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #6 Power Output / Com (T7) |
| 1L-65 To/From: "White/E-Rack/3" 14-2 | | | |
| White "Neutral" | 1L-65 Mech Room: Instrument Heater Power | "Instrument Heaters Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #5 Power Output / Neutral |
| Black "Switched" | 1L-65 Mech Room: Instrument Heater Power | "Instrument Heaters Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #5 Power Output / Com (T7) |
| 1L-66 To/From: No External Connections 14-2 | | | |
| Black "Switched" | 1L-66 Mech Room: Ceiling Peak Exhaust Blower - Int 1 | "Exhaust, Great Room (Low) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #3 Power Output / Com (T7) |
| | 1L-66 Mech Room: Ceiling Peak Exhaust Blower - Int 1 | "Great Room Exhaust Spd Controller" 1 | Motor Speed Controller, In-line Power In (120 Vac) / Line |
| 1L-67 To/From: No External Connections 14-2 | | | |
| Black "Switched" | 1L-67 Mech Room: Ceiling Peak Exhaust Blower - Int 2 | "Exhaust, Great Room (High) Relay" 1 | Relay, DPDT, 24 Vdc (Plug-In) NC Input / NC 1 (T1) |
| | 1L-67 Mech Room: Ceiling Peak Exhaust Blower - Int 2 | "Great Room Exhaust Spd Controller" 1 | Motor Speed Controller, In-line Power Output / Load |
| 1L-A01 To/From: "White/CN-Panel/2" 22-4 | | | |
| Red "+24 Vdc" | 1L-A01 Mech Room: Hot Water Recirc Pump (N) Control | "Hot Water Recirc Pump (N) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #7 Control In / Coil+ (TA) |
| | 1L-A02 Mech Room: Hot Water Recirc Pump (S) Control | "Hot Water Recirc Pump (S) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #8 Control In / Coil+ (TA) |
| White "Signal" | 1L-A01 Mech Room: Hot Water Recirc Pump (N) Control | "Hot Water Recirc Pump (N) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #7 Control In / Coil- (TB) |
| Green "Signal" | 1L-A02 Mech Room: Hot Water Recirc Pump (S) Control | "Hot Water Recirc Pump (S) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #8 Control In / Coil- (TB) |
| 1L-A03 To/From: "White/CN-Panel/2" 22-4 | | | |
| Red "+24 Vdc" | 1L-A65 UPS Secondary Loads Drive | "UPS Secondary Loads 25A SSR" 1 | Relay, Solid State (25A) #4 Control In / 3 (Input +) |
| | 1L-A03 Standby Lighting Drive | "Standby Lighting Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #1 Control In / Coil+ (TA) |
| White "Switched" | 1L-A03 Standby Lighting Drive | "Standby Lighting Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #1 Control In / Coil- (TB) |

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|----------------------|---|--|--|
| Green "Switched" | 1L-A65 UPS Secondary Loads Drive | "UPS Secondary Loads 25A SSR" 1 | Relay, Solid State (25A) #4 Control In / 4 (Input -) |
| 1L-A10 | | To/From: "White/CN-Panel/2" | 22-10 |
| Black "Ground" | 1L-A13 Water Heaters Red LED | "EM Off-Peak Status, Water Heaters (A)" 1 | LED Bi-Color Indicator, 12 Vdc #1 Control In / Common |
| | 1L-A14 Water Heaters Green LED | "EM Off-Peak Status, Water Heaters (A)" 1 | LED Bi-Color Indicator, 12 Vdc #1 Control In / Common |
| | 1L-A10 Load Group B Green LED | "EM Off-Peak Status, Load Group B" 1 | LED Bi-Color Indicator, 12 Vdc #2 Control In / Common |
| | 1L-A11 HVAC North Green LED | "EM Off-Peak Status, HVAC North (C)" 1 | LED Bi-Color Indicator, 12 Vdc #3 Control In / Common |
| | 1L-A12 HVAC South Green LED | "EM Off-Peak Status, HVAC South (D)" 1 | LED Bi-Color Indicator, 12 Vdc #4 Control In / Common |
| | 1L-A28 Load Group B Red LED | "EM Off-Peak Status, Load Group B" 1 | LED Bi-Color Indicator, 12 Vdc #2 Control In / Common |
| | 1L-A29 HVAC North Red LED | "EM Off-Peak Status, HVAC North (C)" 1 | LED Bi-Color Indicator, 12 Vdc #3 Control In / Common |
| | 1L-A30 HVAC South Red LED | "EM Off-Peak Status, HVAC South (D)" 1 | LED Bi-Color Indicator, 12 Vdc #4 Control In / Common |
| White "Switched" | 1L-A10 Load Group B Green LED | "EM Off-Peak Status, Load Group B" 1 | LED Bi-Color Indicator, 12 Vdc #2 Control In / Green |
| Green "Signal" | 1L-A11 HVAC North Green LED | "EM Off-Peak Status, HVAC North (C)" 1 | LED Bi-Color Indicator, 12 Vdc #3 Control In / Green |
| Brown "Signal" | 1L-A12 HVAC South Green LED | "EM Off-Peak Status, HVAC South (D)" 1 | LED Bi-Color Indicator, 12 Vdc #4 Control In / Green |
| Blue "Signal" | 1L-A13 Water Heaters Red LED | "EM Off-Peak Status, Water Heaters (A)" 1 | LED Bi-Color Indicator, 12 Vdc #1 Control In / Red |
| Orange "Signal" | 1L-A14 Water Heaters Green LED | "EM Off-Peak Status, Water Heaters (A)" 1 | LED Bi-Color Indicator, 12 Vdc #1 Control In / Green |
| Yellow "Switched" | 1L-A28 Load Group B Red LED | "EM Off-Peak Status, Load Group B" 1 | LED Bi-Color Indicator, 12 Vdc #2 Control In / Red |
| Violet "Switched" | 1L-A29 HVAC North Red LED | "EM Off-Peak Status, HVAC North (C)" 1 | LED Bi-Color Indicator, 12 Vdc #3 Control In / Red |
| Gray "Switched" | 1L-A30 HVAC South Red LED | "EM Off-Peak Status, HVAC South (D)" 1 | LED Bi-Color Indicator, 12 Vdc #4 Control In / Red |
| 1L-A145 | | To/From: "White/CN-Panel/2" | 22-4 (S) |
| Black "Return" | 1L-A145 White GP/1: Cabinet Fan Drive | "Enclosure Vent Fan & Temp Sensor" 1 | Fan & Sensor Kit, Cabinet Fan Power In / Fan - |
| Red "Switched" | 1L-A145 White GP/1: Cabinet Fan Drive | "Enclosure Vent Fan & Temp Sensor" 1 | Fan & Sensor Kit, Cabinet Fan Power In / Fan + |
| White "Select" | 1L-S10 White GP/1: Cabinet Temperature | "Enclosure Vent Fan & Temp Sensor" 1 | Fan & Sensor Kit, Cabinet Temp Sensor Output / (Sensor) + |

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|-----------------------------|--|---|--|
| Green "Signal" | 1L-S10 White GP/1: Cabinet Temperature | "Enclosure Vent Fan & Temp Sensor" 1 | Fan & Sensor Kit, Cabinet Temp Sensor Output / (Sensor) - |
| Shield "Shield" | 1L-S10 White GP/1: Cabinet Temperature | "Enclosure Vent Fan & Temp Sensor" 1 | Fan & Sensor Kit, Cabinet Temp Sensor Output / GND |
| 1L-A15+ | | To/From: "White/CN-Panel/2" | 22-8 |
| Red "+24 Vdc" | 1L-A41 Bedroom 4/5 Bath Heater Drive | "Bedroom 4/5 Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #1 Control In / 3 (Input +) |
| | 1L-A42 Master Bath Heater Drive | "Master Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #2 Control In / 3 (Input +) |
| | 1L-A43 Upper Bath Heater Drive | "Upper Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #3 Control In / 3 (Input +) |
| | 1L-A15 Master Bath: Towel Warmer Pump Drive | "Towel Warmer Pump, Master Bath Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #6 Control In / Coil+ (TA) |
| | 1L-A16 Instrument Heaters Drive | "Instrument Heaters Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #5 Control In / Coil+ (TA) |
| | 1L-A17 Great Room: Fireplace Blower Drive | "Blower, Great Room Fireplace Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #4 Control In / Coil+ (TA) |
| White "Switched" | 1L-A41 Bedroom 4/5 Bath Heater Drive | "Bedroom 4/5 Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #1 Control In / 4 (Input -) |
| Green "Switched" | 1L-A42 Master Bath Heater Drive | "Master Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #2 Control In / 4 (Input -) |
| Brown "Switched" | 1L-A43 Upper Bath Heater Drive | "Upper Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #3 Control In / 4 (Input -) |
| Blue "Switched" | 1L-A15 Master Bath: Towel Warmer Pump Drive | "Towel Warmer Pump, Master Bath Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #6 Control In / Coil- (TB) |
| Orange "Switched" | 1L-A16 Instrument Heaters Drive | "Instrument Heaters Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #5 Control In / Coil- (TB) |
| Yellow "Switched" | 1L-A17 Great Room: Fireplace Blower Drive | "Blower, Great Room Fireplace Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #4 Control In / Coil- (TB) |
| 1L-A18 | | To/From: "White/CN-Panel/2" | 22-4 |
| Red "+24 Vdc" | 1L-A19 Great Room: Exhaust (High Speed) | "Exhaust, Great Room (High) Relay" 1 | Relay, DPDT, 24 Vdc (Plug-In) Control In / Coil +(TA) |
| | 1L-A18 Great Room: Exhaust (Low Speed) | "Exhaust, Great Room (Low) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #3 Control In / Coil+ (TA) |
| White "Switched" | 1L-A18 Great Room: Exhaust (Low Speed) | "Exhaust, Great Room (Low) Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #3 Control In / Coil- (TB) |
| Green "Switched" | 1L-A19 Great Room: Exhaust (High Speed) | "Exhaust, Great Room (High) Relay" 1 | Relay, DPDT, 24 Vdc (Plug-In) Control In / Coil -(TB) |

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|--------------------------|--|---|--|
| 1L-A186 | | To/From: "White/CN-Panel/2" | 22-6 |
| Black "Return" | 1L-A204 Water Heaters - Enable | "Water Heater (South) 50A SSR" 1 | Relay, Solid State (50A) #1 Control In / 4 (Input -) |
| | 1L-A204 Water Heaters - Enable | "Water Heater (North) 50A SSR" 1 | Relay, Solid State (50A) #2 Control In / 4 (Input -) |
| | 1L-A205 Group B Loads Enable | "Off-Peak Load Group B Relay 1" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #1 Control In / Coil- (TB) |
| | 1L-A205 Group B Loads Enable | "Off-Peak Load Group B Relay 2" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #2 Control In / Coil- (TB) |
| | 1L-A187 Mech Room: Off-Peak HVAC Upper Drive; Off | "EM Off-Peak Status, HVAC Upper (E)" 1 | LED Bi-Color Indicator, 12 Vdc #5 Control In / Common |
| | 1L-A186 HVAC Upper Green LED | "EM Off-Peak Status, HVAC Upper (E)" 1 | LED Bi-Color Indicator, 12 Vdc #5 Control In / Common |
| Red "Signal" | 1L-A187 Mech Room: Off-Peak HVAC Upper Drive; Off | "EM Off-Peak Status, HVAC Upper (E)" 1 | LED Bi-Color Indicator, 12 Vdc #5 Control In / Red |
| Green "Signal" | 1L-A186 HVAC Upper Green LED | "EM Off-Peak Status, HVAC Upper (E)" 1 | LED Bi-Color Indicator, 12 Vdc #5 Control In / Green |
| Brown "Signal" | 1L-A204 Water Heaters - Enable | "Water Heater (South) 50A SSR" 1 | Relay, Solid State (50A) #1 Control In / 3 (Input +) |
| | 1L-A204 Water Heaters - Enable | "Water Heater (North) 50A SSR" 1 | Relay, Solid State (50A) #2 Control In / 3 (Input +) |
| Blue "Signal" | 1L-A205 Group B Loads Enable | "Off-Peak Load Group B Relay 1" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #1 Control In / Coil+ (TA) |
| | 1L-A205 Group B Loads Enable | "Off-Peak Load Group B Relay 2" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #2 Control In / Coil+ (TA) |
| 1L-A206 | | To/From: "White/CN-Panel/2" | 22-6 |
| Black "Return" | 1L-A206 HVAC North Enable (ext) | "Off-Peak Control, HVAC North Pass-thru" 1 | Pass-Thru, Signal Set #1 Input / Return |
| Red "Signal" | 1L-A206 HVAC North Enable (ext) | "Off-Peak Control, HVAC North Pass-thru" 1 | Pass-Thru, Signal Set #1 Input / Signal 1 |
| White "Signal" | 1L-A207 HVAC South Enable (ext) | "Off-Peak Control, HVAC South Pass-thru" 1 | Pass-Thru, Signal Set #2 Input / Signal 1 |
| Green "Return" | 1L-A207 HVAC South Enable (ext) | "Off-Peak Control, HVAC South Pass-thru" 1 | Pass-Thru, Signal Set #2 Input / Return |
| Brown "Return" | 1L-A208 HVAC Upper Enable (ext) | "Off-Peak Control, HVAC Upper Pass-thru" 1 | Pass-Thru, Signal Set #3 Input / Return |
| Blue "Signal" | 1L-A208 HVAC Upper Enable (ext) | "Off-Peak Control, HVAC Upper Pass-thru" 1 | Pass-Thru, Signal Set #3 Input / Signal 1 |
| 1L-A219 | | To/From: "Yellow/CN-Panel/H" | 22-4 |
| Black "Return" | 1L-A219 Water Heater North Call Monitor | "Water Heater Call Monitor Transformer, North" 1 | Transformer, 12 Vac 6W #1 Power Output / Secondary B |
| Red "Signal" | 1L-A219 Water Heater North Call Monitor | "Water Heater Call Monitor Transformer, North" 1 | Transformer, 12 Vac 6W #1 Power Output / Secondary A |

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|-----------------------|--|---|--|
| White "Signal" | 1L-A220 Water Heater South Call Monitor | "Water Heater Call Monitor Transformer, South" 1 | Transformer, 12 Vac 6W #2 Power Output / Secondary A |
| Green "Return" | 1L-A220 Water Heater South Call Monitor | "Water Heater Call Monitor Transformer, South" 1 | Transformer, 12 Vac 6W #2 Power Output / Secondary B |
| 1L-A31 | To/From: Mech Room (@HVAC Controls) | | 18-2 |
| Black "Terminal A" | 1L-A31 Mech Room: Off Peak Discrete - Upper AC | "Off-Peak Control, HVAC Upper Pass-thru" 1 | Pass-Thru, Signal Set #3 Output / Return |
| Red "Terminal B" | 1L-A31 Mech Room: Off Peak Discrete - Upper AC | "Off-Peak Control, HVAC Upper Pass-thru" 1 | Pass-Thru, Signal Set #3 Output / Signal 1 |
| 1L-A32 | To/From: Mech Room (@Back Snow Melt Boiler) | | 18-2 |
| Black "Terminal A" | 1L-A32 Mech Room: Off Peak Discrete - Snow Melt (Back) | "Off-Peak Load Group B Relay 1" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #1 Contact Pair, NO / Pair 2 (T8) |
| Red "Terminal B" | 1L-A32 Mech Room: Off Peak Discrete - Snow Melt (Back) | "Off-Peak Load Group B Relay 1" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #1 Contact Pair, NO / Pair 2 (T5) |
| 1L-A33 | To/From: Mech Room (@Front Snow Melt Boiler) | | 18-2 |
| Black "Terminal A" | 1L-A33 Mech Room: Off Peak Discrete - Snow Melt (Front) | "Off-Peak Load Group B Relay 1" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #1 Contact Pair, NO / Pair 3 (T9) |
| Red "Terminal B" | 1L-A33 Mech Room: Off Peak Discrete - Snow Melt (Front) | "Off-Peak Load Group B Relay 1" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #1 Contact Pair, NO / Pair 3 (T6) |
| 1L-A34 | To/From: "Furnace 1L-N" | | 18-2 |
| Black "Terminal A" | 1L-A34 Mech Room: Off Peak Discrete - Plenum Heater (N) | "Off-Peak Control, HVAC North Pass-thru" 1 | Pass-Thru, Signal Set #1 Output / Return |
| Red "Terminal B" | 1L-A34 Mech Room: Off Peak Discrete - Plenum Heater (N) | "Off-Peak Control, HVAC North Pass-thru" 1 | Pass-Thru, Signal Set #1 Output / Signal 1 |
| 1L-A35 | To/From: Mech Room (@Garage/Shop Floor Heat) | | 18-2 |
| Black "Terminal A" | 1L-A35 Mech Room: Off Peak Discrete - Floor Heat (Shop) | "Off-Peak Load Group B Relay 2" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #2 Contact Pair, NO / Pair 2 (T8) |
| Red "Terminal B" | 1L-A35 Mech Room: Off Peak Discrete - Floor Heat (Shop) | "Off-Peak Load Group B Relay 2" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #2 Contact Pair, NO / Pair 2 (T5) |
| 1L-A36 | To/From: Mech Room (@Garage/Shop Floor Heat) | | 18-2 |
| Black "Terminal A" | 1L-A36 Mech Room: Off Peak Discrete - Floor Heat (Garage) | "Off-Peak Load Group B Relay 2" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #2 Contact Pair, NO / Pair 3 (T9) |
| Red "Terminal B" | 1L-A36 Mech Room: Off Peak Discrete - Floor Heat (Garage) | "Off-Peak Load Group B Relay 2" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #2 Contact Pair, NO / Pair 3 (T6) |
| 1L-A37 | To/From: "Furnace 1L-S" | | 18-2 |
| Black "Terminal A" | 1L-A37 Mech Room: Off Peak Discrete - Plenum Heater (S) | "Off-Peak Control, HVAC South Pass-thru" 1 | Pass-Thru, Signal Set #2 Output / Return |
| Red "Terminal B" | 1L-A37 Mech Room: Off Peak Discrete - Plenum Heater (S) | "Off-Peak Control, HVAC South Pass-thru" 1 | Pass-Thru, Signal Set #2 Output / Signal 1 |

Cable Wire Device Connections

White/GP-Panel/1

| Cable Wires | Circuit ID Circuit Name | Device Name Terminal Wire Count | Device Type Device Terminal Connection |
|--|---|---|--|
| 1L-A38 To/From: Mech Room (@House Floor Heat Boiler) 18-2 | | | |
| Black "Terminal A" | 1L-A38 Mech Room: Off Peak Discrete - Floor Heat Boiler (Interior) | "Off-Peak Load Group B Relay 2" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #2 Contact Pair, NO / Pair 1 (T7) |
| Red "Terminal B" | 1L-A38 Mech Room: Off Peak Discrete - Floor Heat Boiler (Interior) | "Off-Peak Load Group B Relay 2" 1 | Relay, 3PDT, 12 Vdc (Plug-In) #2 Contact Pair, NO / Pair 1 (T4) |
| 1L-A39 To/From: "White/CN-Panel/1" 22-2 | | | |
| Black "Ground" | 1L-A39 Propane Shutoff Control | "Propane Shut-Off Valve Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #2 Control In / Coil- (TB) |
| Red "Switched" | 1L-A39 Propane Shutoff Control | "Propane Shut-Off Valve Relay" 1 | Relay, SPDT, 24 Vdc (Plug-In) #2 Control In / Coil+ (TA) |
| 2B-17 To/From: Master Bath 12-3 | | | |
| White "Hot (Pole 1)" | 2B-17 Master Bath: Heater | "Master Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #2 Power Output / Neutral |
| Black "Hot (Pole 2)" | 2B-17 Master Bath: Heater | "Master Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #2 Power Output / Hot |
| Red "Switched (Pole 2)" | 2B-17 Master Bath: Heater | "Master Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #2 Power Output / 2 (Output) |
| 2C-21 To/From: Great Room 14-4 | | | |
| White "Neutral" | 2C-21 Great Room: Ceiling Peak Exhaust Blower | "Exhaust, Great Room (High) Relay" 1 | Relay, DPDT, 24 Vdc (Plug-In) Power Output / Neutral |
| Black "Switched" | 2C-21 Great Room: Ceiling Peak Exhaust Blower | "Exhaust, Great Room (High) Relay" 1 | Relay, DPDT, 24 Vdc (Plug-In) Power Output / Com 1 (T7) |
| 2F-12 To/From: "Silver/CN-Panel" 14-2 | | | |
| White "Neutral" | 2F-12 UPS Secondary Loads 2 | "UPS Secondary Loads 25A SSR" 2 | Relay, Solid State (25A) #4 Power Output / Neutral |
| Black "Hot" | 2F-12 UPS Secondary Loads 2 | "UPS Secondary Loads 25A SSR" 2 | Relay, Solid State (25A) #4 Power Output / 2 (Output) |
| 3A-18 To/From: Upper Bath 14-3 | | | |
| White "Hot (Pole 1)" | 3A-18 Upper Bath: Heater | "Upper Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #3 Power Output / Neutral |
| Black "Hot (Pole 2)" | 3A-18 Upper Bath: Heater | "Upper Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #3 Power Output / Hot |
| Red "Switched (Pole 2)" | 3A-18 Upper Bath: Heater | "Upper Bath: Heater 25A SSR" 1 | Relay, Solid State (25A) #3 Power Output / 2 (Output) |