

AKL08 Locator	
<b>A</b>	Terminal Plate Screw
<b>B</b>	4 Amp Fuse
<b>C</b>	Pump & Boiler Connections
<b>D</b>	Reset Button
<b>E</b>	NO / NC Actuator Jumper
<b>F</b>	Boiler Delay Jumper
<b>G</b>	24V Power Connection
...	High Voltage Cover

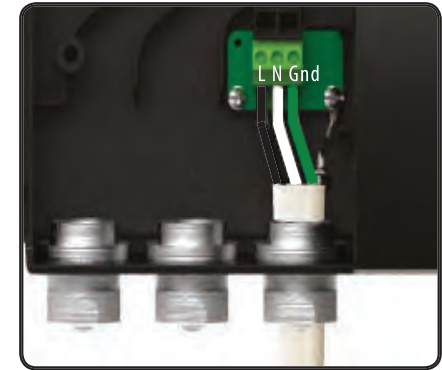
Electrical connections	
L	Line connection
H / R	Power (24 VAC)
N	Neutral or Common
C	Common
Gnd	Ground
S1	Floor sensor
⌚	Night Set Back
W / SL / ↑	Switched contact

**INFORMATION**  
If you are mounting the Zone Wiring Center on a stud wall, extra support may be required.

**Warning**  
These instructions apply to the SALUS model stated above.  
This product must be fitted by a competent person, and installation must comply with the guidance, standards and regulations applicable to the country or state where the product is installed. Failure to comply with the requirements of the relevant guidance, standards and regulations could lead to injury, death or prosecution.

**Warning**  
Always isolate the AC main supply before installing or working on any components that require 120 VAC 60Hz supply.  
The ground terminals on the AKL08 are for ground connections only. These terminals provide no earth protection.

Remove the white terminal plate in order to reach the power cord terminals for the 120VAC supply.



- Loosen the cable clamps (not included)
  - Insert the wires for the power, boiler and pump
  - Install or route the wires to their desired locations
  - Tighten the cable clamps to secure the wires
- See section 1 for more info.



**INFORMATION**  
The cable clamps used for securing the wires are sold separately.

For PDF Installation guide go to [www.salusinc.com](http://www.salusinc.com)



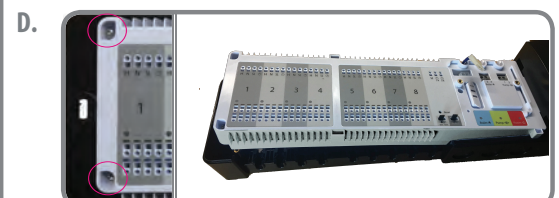
Remove the plastic cover by rotating the retainer 90° to the Unlock position.



Remove the High Voltage cover by loosening the retainer screws.



Disconnect the 24VAC supply connection.



Loosen the two screws on the left of the white terminal plate, then lift to remove for access to the power cord terminals.



Install the appropriate cable clamps (purchased separately) and insert the power wires and optional pump and boiler wires.



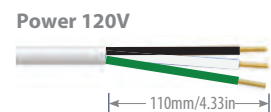
Tighten the cable clamps to secure the wires.



### 3 Connect 120VAC to the Relay Controller

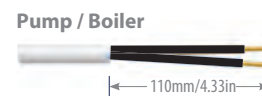
Loosen the screws on the green terminals then insert the power wires and fasten to secure.

**Warning**  
Use power cable clamps that are suitable for your wiring and system.



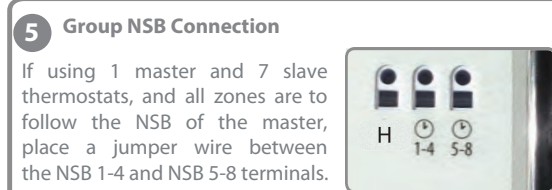
### 4 Attach the wires for the boiler and pump connections.

- Strip the boiler and pump wires to the appropriate length.



- Press the terminal button with a small screwdriver.
- Insert the wire, then release the button.

Ensure the pump and boiler wires are correctly routed through the grooves in the back plate and white terminal plate.



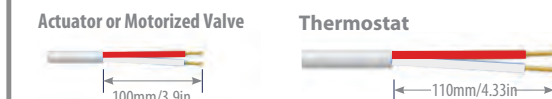
### 5 Group NSB Connection

If using 1 master and 7 slave thermostats, and all zones are to follow the NSB of the master, place a jumper wire between the NSB 1-4 and NSB 5-8 terminals.



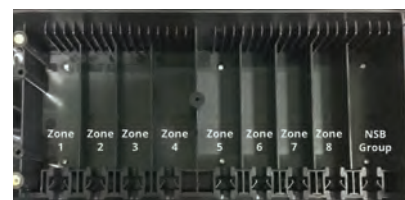
- Connect the H terminal to the shared contact of the clock output.
- Connect the other clock output contact to the desired NSB group of the slave thermostats, 1-4, 5-8, or both.

### 6 Connect Thermostats, Actuators and Valves

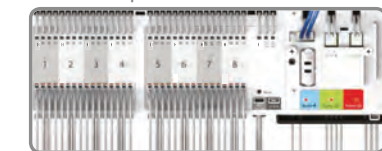


- Strip the thermostat, actuator and valve wires and cables to the appropriate lengths.
- Run the thermostat cables in the slots on the back plate for the appropriate zone.

**Note:** All the wires for the thermostats should be fixed in the grooves at the top, under the white terminal plate.



- Reattach the white terminal plate to the back plate and secure it with the two screws on the left.
- Bend and insert the thermostat wires into the round holes at the top of the AKL08 white terminal plate.

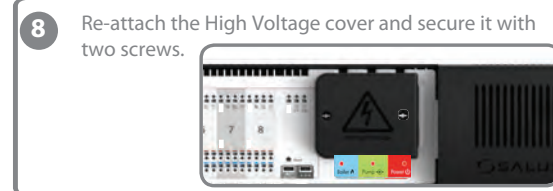
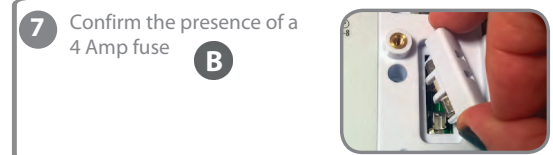


**Note** For group functions, be sure to connect the NSB control line of the master and slave thermostats. For standalone thermostat operation, do NOT connect the NSB control line of the thermostat.

- Bend and insert the actuator and motorized valve wires into the round holes at the bottom of the plate.

**Note.** Up to 4 actuators or motorized valves can be controlled by each zone.

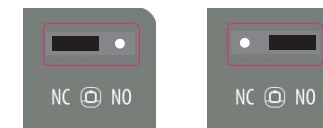
- Reconnect the 24VAC power supply.



### 9 Boiler/Pump Jumper Settings

#### Jumper for Actuator Type

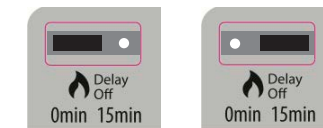
The default actuator type supported by the boiler and pump relays is normally closed (NC). To change to normally open (NO), carefully remove the jumper and reinsert it in the other position as shown below. **The jumper does NOT change the zone output behavior.** The thermostat must support the type of actuator used.



#### Jumper for Boiler Off Delay

The pump and boiler On delay and the pump Off delay are fixed at 3 minutes in the software and at 0 in the terminal. The On delay starts when any zone is turned on and stays on. The Off delay starts when the last zone is turned off.

The boiler Off delay is controlled by a jumper and can be either 0 or 15 minutes. To select the desired delay, place the jumper in the position corresponding to the desired delay time.



Replace the plastic cover and re-attach it by turning the retainer to the Lock position. Switch on the main power supply to the unit. The red Power LED will turn on.



### Installing and Connecting the AKL08

Use the AKL08 relay controller to simply and safely connect thermostats to their corresponding thermal actuators or motorized valves in three possible configurations:

- One thermostat for each zone (8 thermostats in total)
- Single group with one master SALUS thermostat and up to 7 slave thermostats
- Two groups (G1 and G2) with 1 master thermostat and up to 3 slave thermostats per group.

#### Note:

- You can have up to 4 actuators or motorized valves per zone.
- You can use SALUS thermostats or any other thermostat that is compatible with the system.
- Make sure that the thermostats, actuators and motorized valves are all 24VAC.

We recommend the use of Salus Thermostats.

For more details please visit our website: [www.salusinc.com](http://www.salusinc.com)

### Factory Resetting the AKL08

To perform a factory reset on the AKL08, locate the reset button to the right of the boiler delay jumpers. Using a suitable tool, press the reset button and release. The AKL08 should now be set to factory defaults.

### LED indications

Name	Color	Meaning
Power	Red	AKL08 is supplied with 120VAC power
Zone 1	Green	Demand from zone 1 thermostat: actuator(s) active
Zone 2	Green	Demand from zone 2 thermostat: actuator(s) active
Zone 3	Green	Demand from zone 3 thermostat: actuator(s) active
Zone 4	Green	Demand from zone 4 thermostat: actuator(s) active
Zone 5	Green	Demand from zone 5 thermostat: actuator(s) active
Zone 6	Green	Demand from zone 6 thermostat: actuator(s) active
Zone 7	Green	Demand from zone 7 thermostat: actuator(s) active
Zone 8	Green	Demand from zone 8 thermostat: actuator(s) active
Pump	Red	Pump contact closed
Boiler	Red	Boiler contact closed

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.