



Daikin Zone Control Panel

Technical Training Module TRC-15



Disclaimer

This material provides technical information that is to only be used by appropriately trained and certified HVAC-R installers and technicians who have agreed to the terms and conditions available here at <https://www.daikincity.com/DaikinCityB2BTermsOfUse.html>. If you have not agreed to these terms and conditions, you may not use or view this material, and you assume responsibility for any injury or property, system or equipment damage which may result. If you have agreed to these terms, you also agree, by viewing or using this material, that this material, by its nature, cannot include a discussion of everything necessary to effect a proper installation or repair of HVAC-R equipment, nor can it address every possible scenario or environment a technician or installer may encounter. Accordingly, this material should not be considered as recommendations for best practices and will not be considered installation or repair instructions to the extent of any conflict with Daikin- or Goodman-issued manuals and specifications, or industry standards and regulations. Each installer or technician remains fully responsible for ensuring proper installation or repair of the HVAC-R equipment being worked on, and you remain fully responsible for any injury or property, system or equipment damage which may result from your installation. ©2026 Daikin Comfort Technologies North America, Inc., all rights reserved; recording, copying, or distribution of this material is prohibited without express written permission from Daikin.

®/™ 2026 Amana. Manufactured under license by Daikin Comfort Technologies North America, Inc.
Limited warranty provided by the manufacturer. *All trademarks are the property of their respective owners.*

Agenda

Tools and Resources

Zone Control Features

Installation

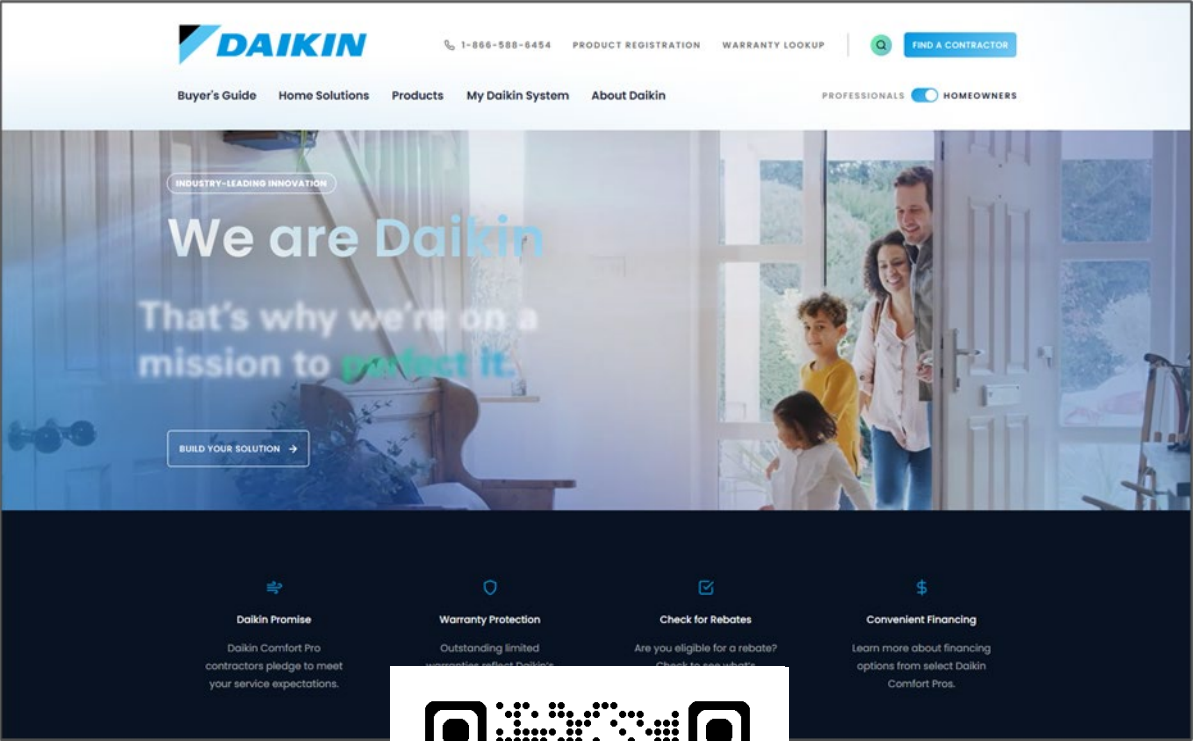
Commissioning and Set-up

Dealer Navigation

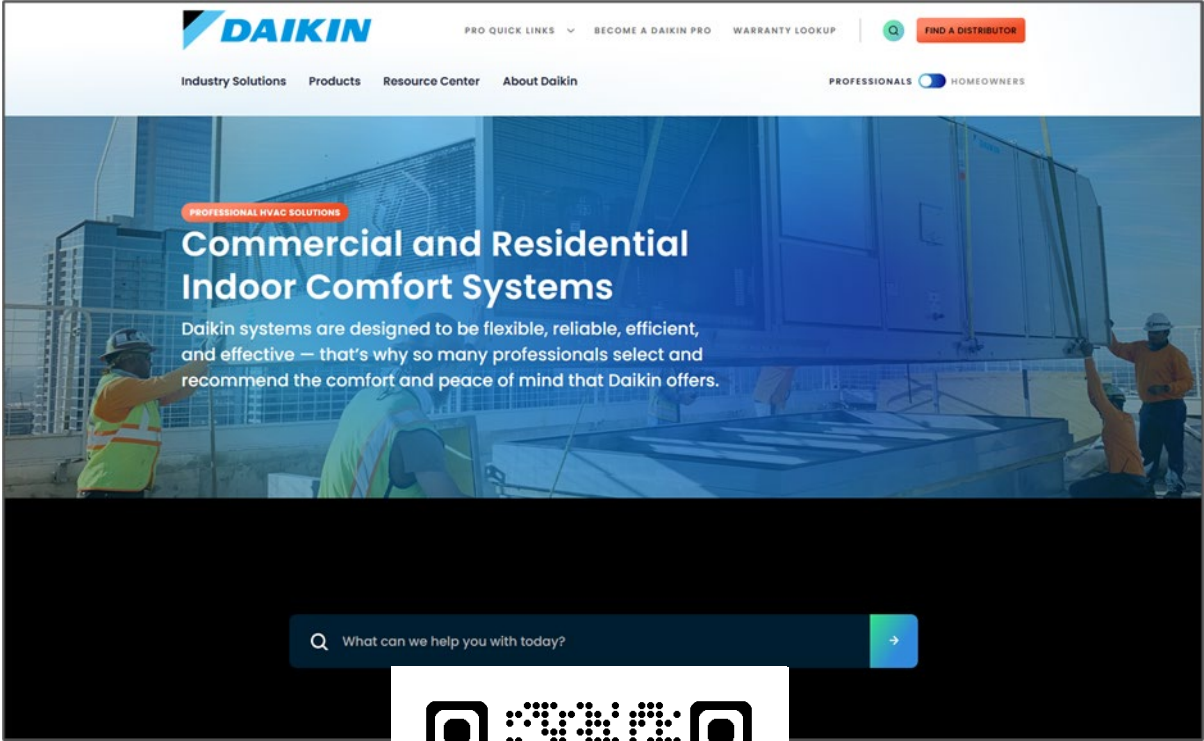
SkyportCare

Troubleshooting

Daikincomfort.com



Daikincomfort.com/pro





PRO QUICK LINKS WARRANTY LOOKUP

FIND A DISTRIBUTOR

FIND A MANUFACTURER'S REP

Industry SolutionsProductsResource CenterAbout Daikin

PROFESSIONALS HOMEOWNERS

Residential Thermostats & Controls Resources

SEARCH DOCUMENTS BY PRODUCT TITLE



Technical Documents

Manuals

Spec Sheet

Warranties

Product Literature

Technical Documents 

Daikin ONE+ smart thermostat 

Daikin ONE Touch smart thermostat 

Daikin ONE Lite smart thermostat 

Daikin ONE+ smart thermostat - Technical Documents

▼ Unitary

ALL DOCUMENTS

[DAIKIN FLUSHMOUNT INSTALLATION CARD](#)

[OVER THE AIR UPDATES INSTRUCTIONS \(RESIDENTIAL PRODUCT OVERVIEW\)](#)

[REFERENCE GUIDE](#)

[UNITARY AUX HEATER INSTALLATION AND SETUP-INSTRUCTIONS](#)

[UNITARY COMMISSIONING MENU OUTLINE](#)

[UNITARY ERROR CODE](#)

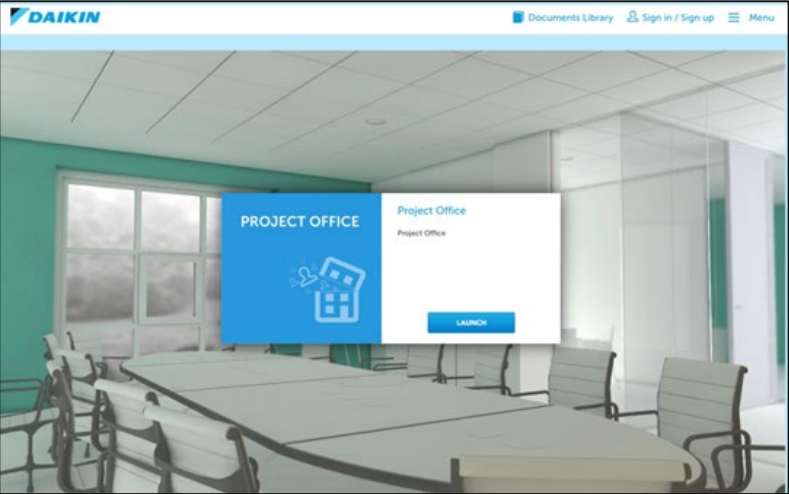
[UNITARY HOMEOWNER SETTINGS OUTLINE](#)

[WIRING DIAGRAMS](#)

► Single/Multi-Zone

► VRV

Project Office



System Configurator

SYSTEM CONFIGURATOR

SEARCH BY: ☒ System ☐ Model No

Sales And Marketing Acct#:

BRAND

☒ Daikin

PHASE

☒ Single-Phase

EQUIPMENT

☒ Air Conditioner ☐ Heat Pump

☐ Packaged

INDOOR TYPE

☒ Coil (Only) ☐ Air Handler

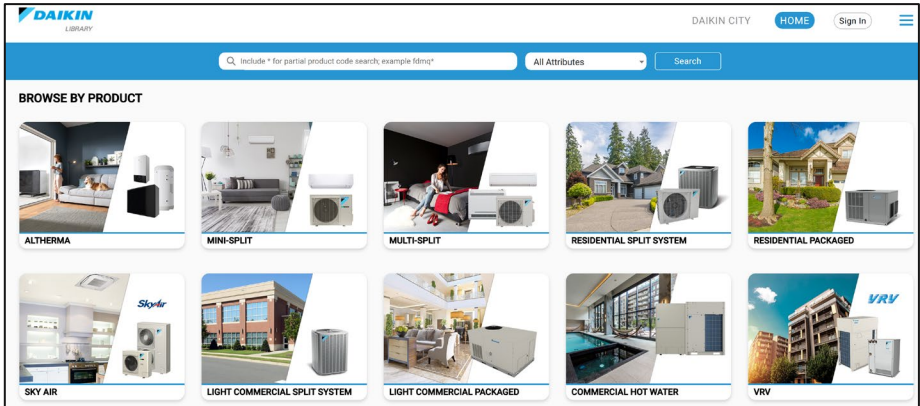
☐ Furnace

☐ Third-Party-Coil

systembuilderhvac.com



Documents Library



Daikin Tech Hub App



Quick easy, “on the go” access to:

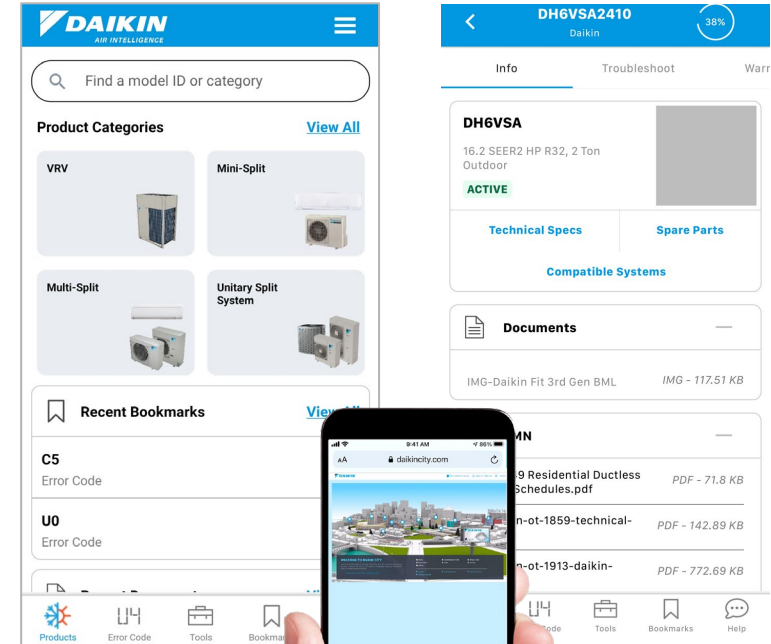
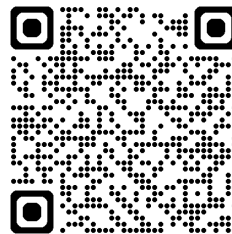
- Daikin Technical & Service information directly in the fingertips
- Match-up and ratings
- Product/diagnostic information
- Documents, Support and more



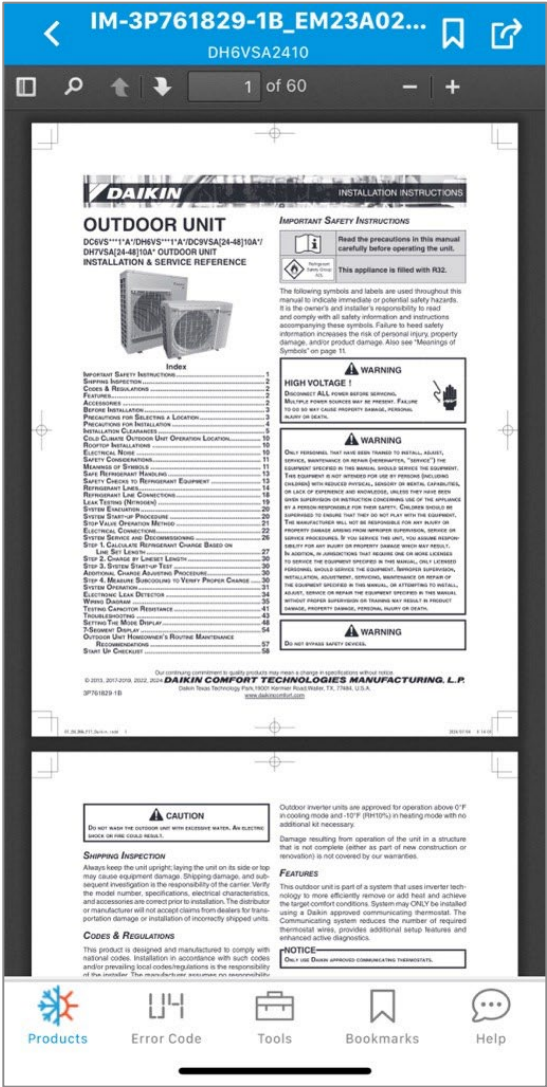
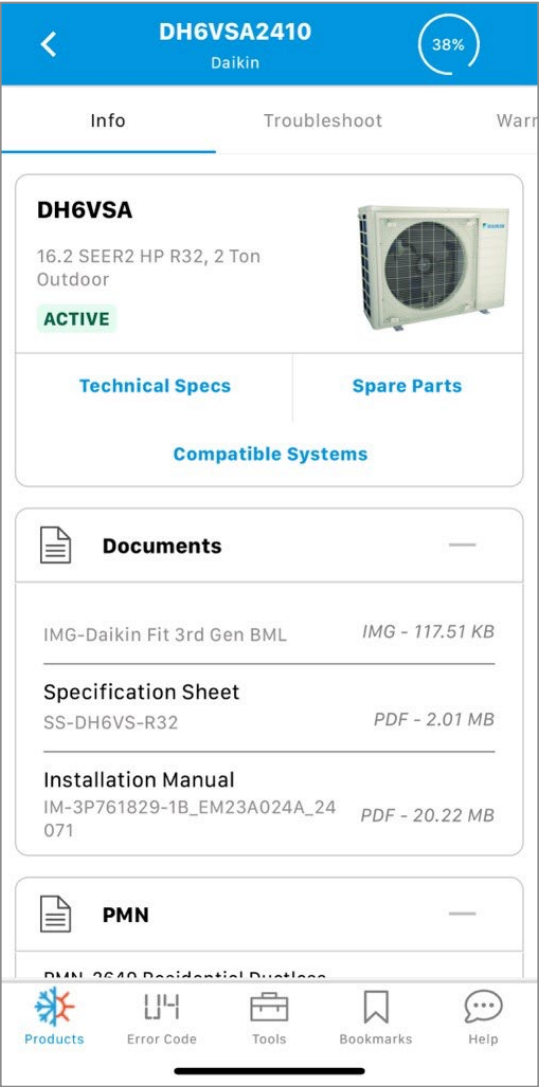
- **User Friendly Interface**
- **Available on Apple® App Store or on Google Play™**



Daikin Tech Hub
VIDEO



Sign-up for free at
www.daikincity.com



- Documents can be downloaded and stored on your mobile device.

Note: This is helpful if you need those documents but are outside of internet or cell service range.

Agenda

Tools and Resources

Zone Control Features

Installation

Commissioning and Set-up

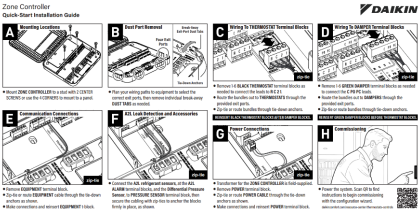
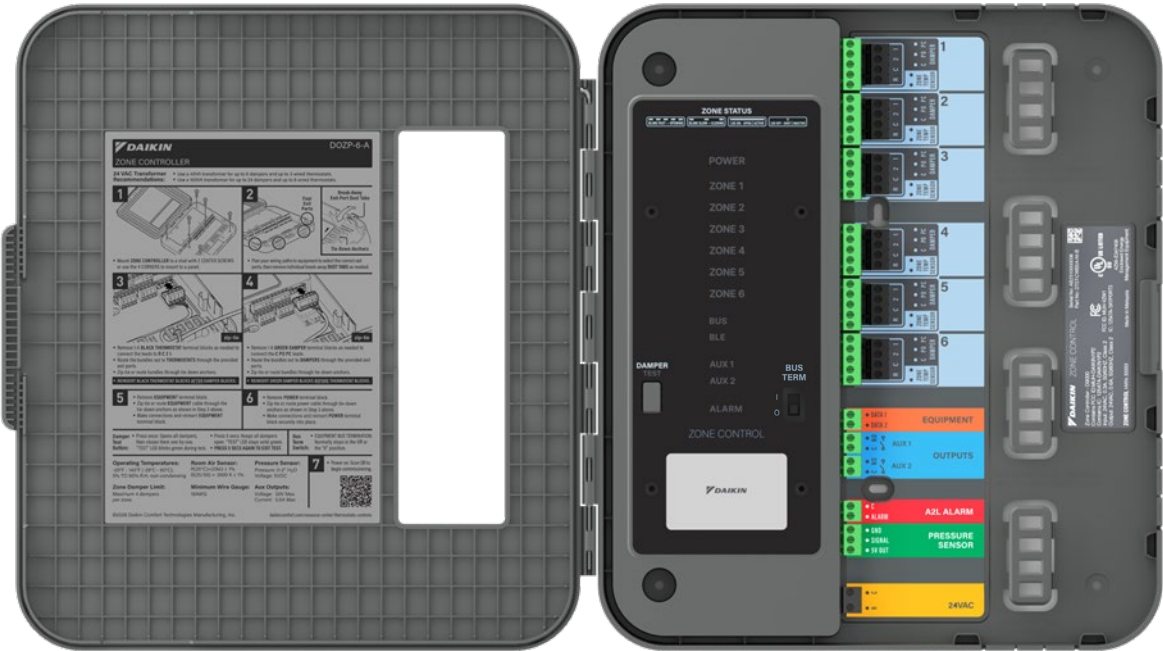
Dealer Navigation

SkyportCare

Troubleshooting

Daikin Zone Panel Bundle – DOZP-6-ADA-A

Zone Control Panel – DOZP-6-A

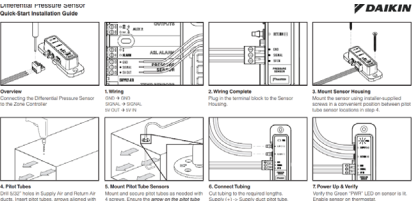
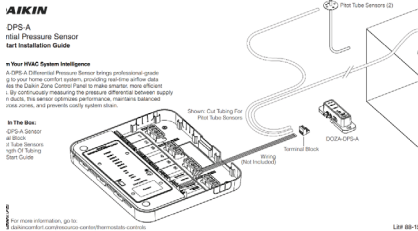


Quick Start Guide



screws

Pressure Sensor- DOZA-DPS-A



Quick Start Guide



2 pitot tubes



16ft of rubber tubing



-
- ZONE STATUS**
- POWER
- ZONE 1
- ZONE 2
- ZONE 3
- ZONE 4
- ZONE 5
- ZONE 6
- BUS
- BLE
- AUX 1
- AUX 2
- ALARM
- ZONE CONTROL**
- DAIKIN
- 1**
- R C 2 1
- ZONE 1 • C • NO • PC • TEMP • STATUS • DAMPER
- 2**
- R C 2 1
- ZONE 2 • C • NO • PC • TEMP • STATUS • DAMPER
- 3**
- R C 2 1
- ZONE 3 • C • NO • PC • TEMP • STATUS • DAMPER
- 4**
- R C 2 1
- ZONE 4 • C • NO • PC • TEMP • STATUS • DAMPER
- 5**
- R C 2 1
- ZONE 5 • C • NO • PC • TEMP • STATUS • DAMPER
- 6**
- R C 2 1
- ZONE 6 • C • NO • PC • TEMP • STATUS • DAMPER
- EQUIPMENT**
- DATA 1
- DATA 2
- OUTPUTS**
- AUX 1
- AUX 2
- A2L ALARM**
- C
- ALARM
- PRESSURE SENSOR**
- GND
- SIGNAL
- 5V OUT
- 24VAC**
- L N
- DAIKIN ZONE CONTROL**
- Serial No. AB211000008
- Part No. D1STC0806AAN-B
- Zone Controller - 00000
- Complies IEC61850-4, IEC61850-5, IEC61850-6, IEC61850-7, IEC61850-8, IEC61850-9, IEC61850-10, IEC61850-11, IEC61850-12, IEC61850-13, IEC61850-14, IEC61850-15, IEC61850-16, IEC61850-17, IEC61850-18, IEC61850-19, IEC61850-20, IEC61850-21, IEC61850-22, IEC61850-23, IEC61850-24, IEC61850-25, IEC61850-26, IEC61850-27, IEC61850-28, IEC61850-29, IEC61850-30, IEC61850-31, IEC61850-32, IEC61850-33, IEC61850-34, IEC61850-35, IEC61850-36, IEC61850-37, IEC61850-38, IEC61850-39, IEC61850-40, IEC61850-41, IEC61850-42, IEC61850-43, IEC61850-44, IEC61850-45, IEC61850-46, IEC61850-47, IEC61850-48, IEC61850-49, IEC61850-50, IEC61850-51, IEC61850-52, IEC61850-53, IEC61850-54, IEC61850-55, IEC61850-56, IEC61850-57, IEC61850-58, IEC61850-59, IEC61850-60, IEC61850-61, IEC61850-62, IEC61850-63, IEC61850-64, IEC61850-65, IEC61850-66, IEC61850-67, IEC61850-68, IEC61850-69, IEC61850-70, IEC61850-71, IEC61850-72, IEC61850-73, IEC61850-74, IEC61850-75, IEC61850-76, IEC61850-77, IEC61850-78, IEC61850-79, IEC61850-80, IEC61850-81, IEC61850-82, IEC61850-83, IEC61850-84, IEC61850-85, IEC61850-86, IEC61850-87, IEC61850-88, IEC61850-89, IEC61850-90, IEC61850-91, IEC61850-92, IEC61850-93, IEC61850-94, IEC61850-95, IEC61850-96, IEC61850-97, IEC61850-98, IEC61850-99, IEC61850-100, IEC61850-101, IEC61850-102, IEC61850-103, IEC61850-104, IEC61850-105, IEC61850-106, IEC61850-107, IEC61850-108, IEC61850-109, IEC61850-110, IEC61850-111, IEC61850-112, IEC61850-113, IEC61850-114, IEC61850-115, IEC61850-116, IEC61850-117, IEC61850-118, IEC61850-119, IEC61850-120, IEC61850-121, IEC61850-122, IEC61850-123, IEC61850-124, IEC61850-125, IEC61850-126, IEC61850-127, IEC61850-128, IEC61850-129, IEC61850-130, IEC61850-131, IEC61850-132, IEC61850-133, IEC61850-134, IEC61850-135, IEC61850-136, IEC61850-137, IEC61850-138, IEC61850-139, IEC61850-140, IEC61850-141, IEC61850-142, IEC61850-143, IEC61850-144, IEC61850-145, IEC61850-146, IEC61850-147, IEC61850-148, IEC61850-149, IEC61850-150, IEC61850-151, IEC61850-152, IEC61850-153, IEC61850-154, IEC61850-155, IEC61850-156, IEC61850-157, IEC61850-158, IEC61850-159, IEC61850-160, IEC61850-161, IEC61850-162, IEC61850-163, IEC61850-164, IEC61850-165, IEC61850-166, IEC61850-167, IEC61850-168, IEC61850-169, IEC61850-170, IEC61850-171, IEC61850-172, IEC61850-173, IEC61850-174, IEC61850-175, IEC61850-176, IEC61850-177, IEC61850-178, IEC61850-179, IEC61850-180, IEC61850-181, IEC61850-182, IEC61850-183, IEC61850-184, IEC61850-185, IEC61850-186, IEC61850-187, IEC61850-188, IEC61850-189, IEC61850-190, IEC61850-191, IEC61850-192, IEC61850-193, IEC61850-194, IEC61850-195, IEC61850-196, IEC61850-197, IEC61850-198, IEC61850-199, IEC61850-200, IEC61850-201, IEC61850-202, IEC61850-203, IEC61850-204, IEC61850-205, IEC61850-206, IEC61850-207, IEC61850-208, IEC61850-209, IEC61850-210, IEC61850-211, IEC61850-212, IEC61850-213, IEC61850-214, IEC61850-215, IEC61850-216, IEC61850-217, IEC61850-218, IEC61850-219, IEC61850-220, IEC61850-221, IEC61850-222, IEC61850-223, IEC61850-224, IEC61850-225, IEC61850-226, IEC61850-227, IEC61850-228, IEC61850-229, IEC61850-230, IEC61850-231, IEC61850-232, IEC61850-233, IEC61850-234, IEC61850-235, IEC61850-236, IEC61850-237, IEC61850-238, IEC61850-239, IEC61850-240, IEC61850-241, IEC61850-242, IEC61850-243, IEC61850-244, IEC61850-245, IEC61850-246, IEC61850-247, IEC61850-248, IEC61850-249, IEC61850-250, IEC61850-251, IEC61850-252, IEC61850-253, IEC61850-254, IEC61850-255, IEC61850-256, IEC61850-257, IEC61850-258, IEC61850-259, IEC61850-260, IEC61850-261, IEC61850-262, IEC61850-263, IEC61850-264, IEC61850-265, IEC61850-266, IEC61850-267, IEC61850-268, IEC61850-269, IEC61850-270, IEC61850-271, IEC61850-272, IEC61850-273, IEC61850-274, IEC61850-275, IEC61850-276, IEC61850-277, IEC61



Auxiliary Contacts Provided

- The Daikin Zone Control Panel has two dry contact relays for engaging AC or DC controlled auxiliary devices. Auxiliary devices must be set up in the smart thermostat setup menu.
 - Whole house humidifier.
 - Whole house dehumidifier.
 - AUX heating source.

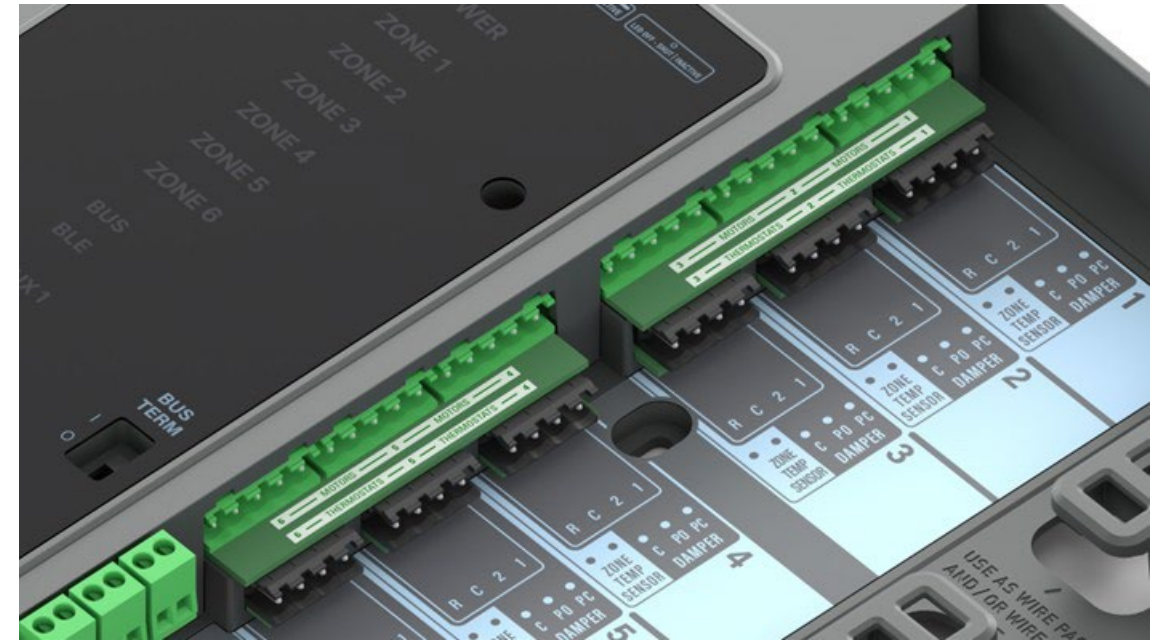
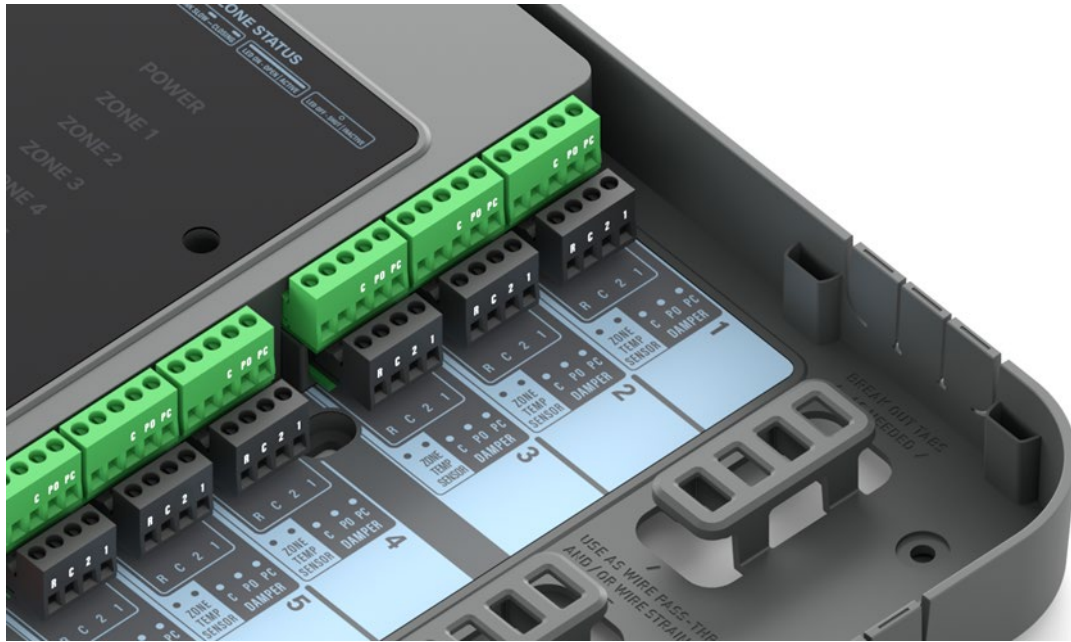


- Pressure sensor comes with default settings:
 - Minimum 0.6" wc.
 - Maximum 0.8" wc.
- Has 2 pressure release algorithms.
 - 1. Normal release algorithm (less aggressive)- Thermostat will read indoor blower CFM and compare to the max zone CFM. If blower CFM is too high, thermostat will modulate only the required dampers to maintain proper CFM and static pressure.
 - 2. Aggressive release algorithm- zone pressure sensor reads higher than 0.8, opens all dampers to 100%.

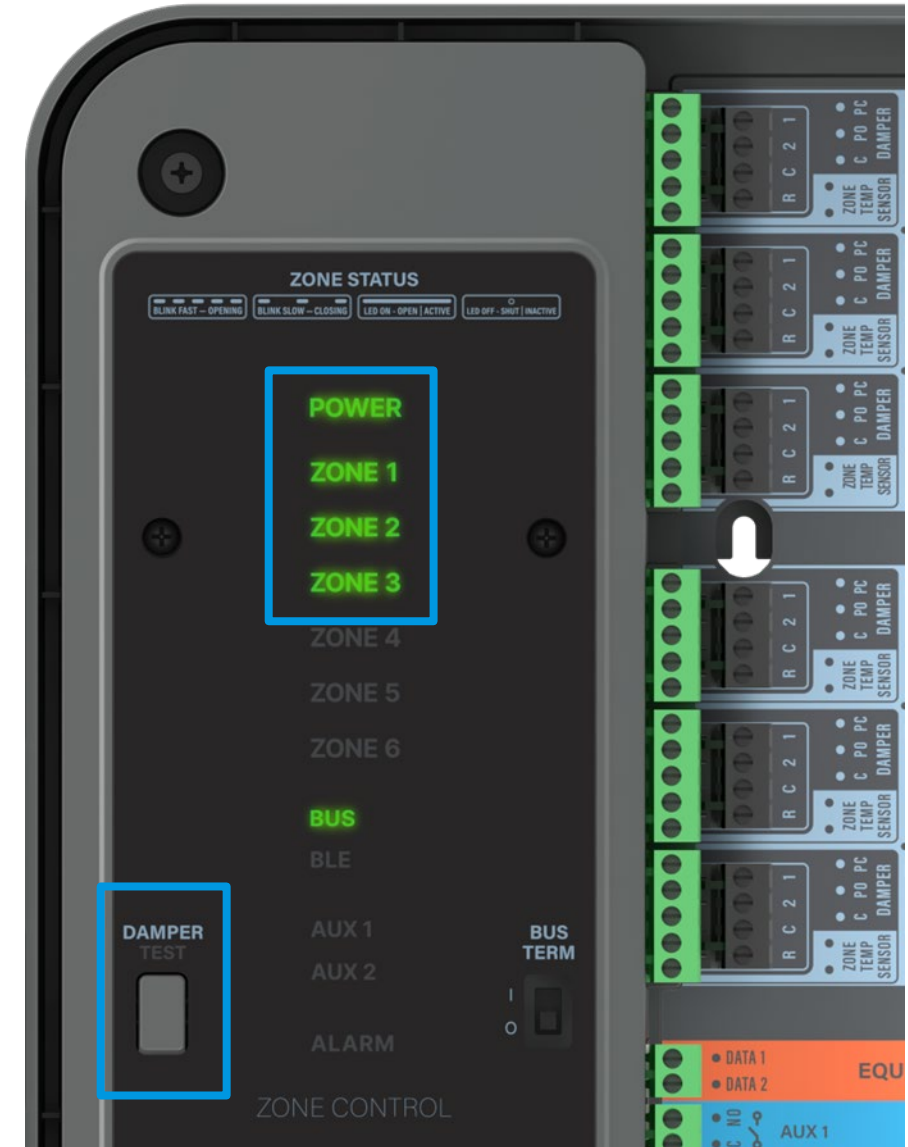


Removeable Connectors

- Removable connectors make it easy for installation and future serviceability.
 - All the connectors are labelled for easy identification.

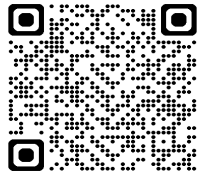


- Zone board will check all zones during power up. If a zone damper is detected, the zone board will turn ON the corresponding green status LED on the front panel.
 - Zone board automatically checks all zones every 5 minutes.
- Damper Test Button.
 - Press once: Opens all dampers, then closes them one by one. “Test” LED blinks green during test.
 - Press 5 secs: Keeps all dampers open. “Test” LED stays Solid green. Press 5 secs again to exit test



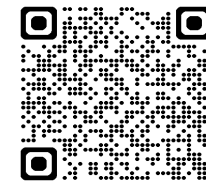
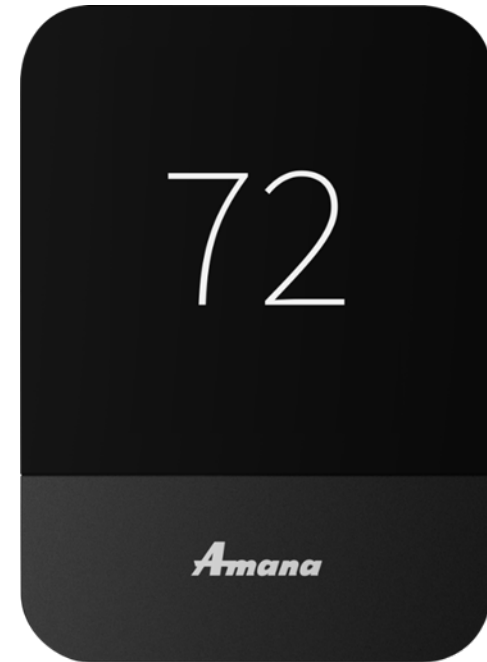
Compatible with:

- Daikin *One+* & Daikin One Touch smart thermostats.
- Daikin Wireless RHT sensor when paired only with a Daikin *One+*.
- Amana brand Smart Thermostat.



Daikin *One+* & Daikin Touch
Smart thermostat

Requires firmware revision 4.0.10 or higher



Amana brand
Smart Thermostat

- You can use the wireless RHT sensors as a zone device.
- You can connect up to 8 RHT sensors to 1 Daikin *One+* Thermostat.



Zone 1



Zone 2



Zone 3



Zone 4-RHT Sensors Averaged



Zone 5-RHT Sensor Averaged w/ Zone 5 Daikin *One+*

- Daikin Zone Control Panel was designed to work with any 24VAC PO/PC damper actuator with a 35s travel time.
 - Each zone can hold up to 6VA worth of damper motors. Calculate your total damper output based on your zone and duct layout.



Agenda

Tools and Resources

Zone Control Features

Installation

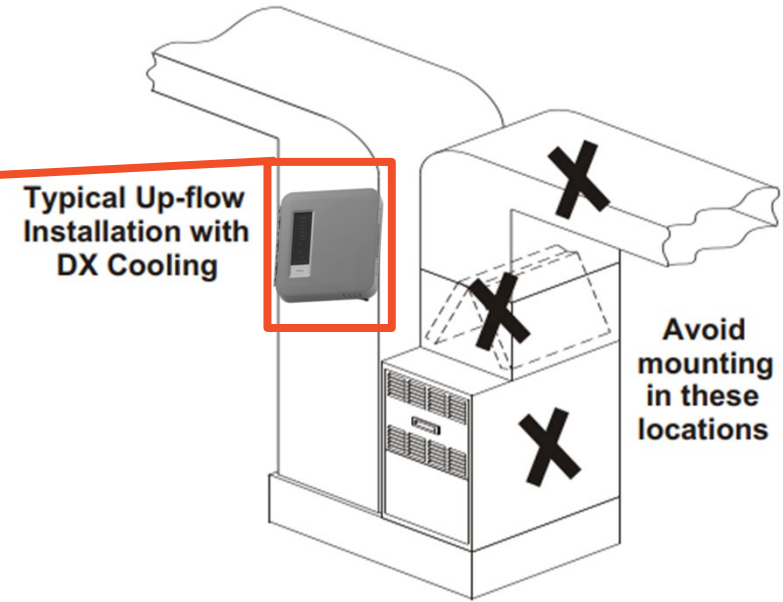
Commissioning and Set-up

Dealer Navigation

SkyportCare

Troubleshooting

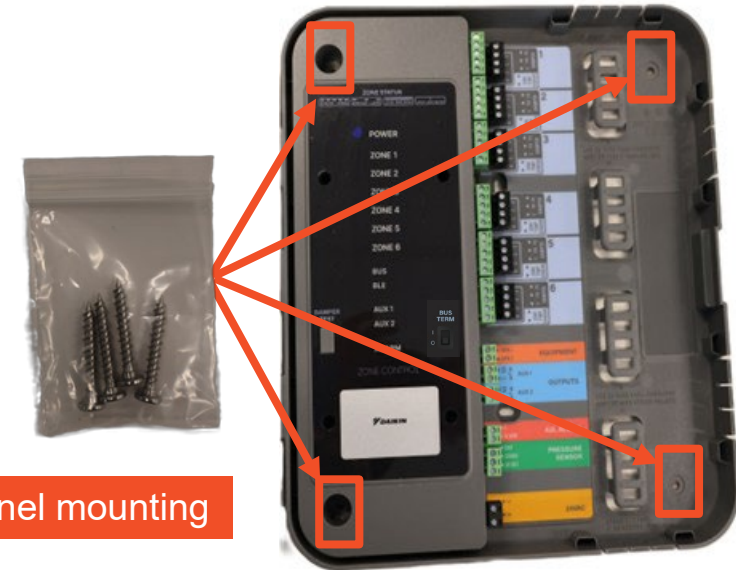
- Choose a suitable location to mount the Daikin Zone Control housing.
- Preferred locations would be a return duct, nearby wall, or convenient studs where plywood can be installed to support the housing.
 - AVOID: Supply duct, air handler, furnace housing, evaporator housing, or hot water coils of any type.
- Follow national and/or local electrical codes.



Used for stud mounting



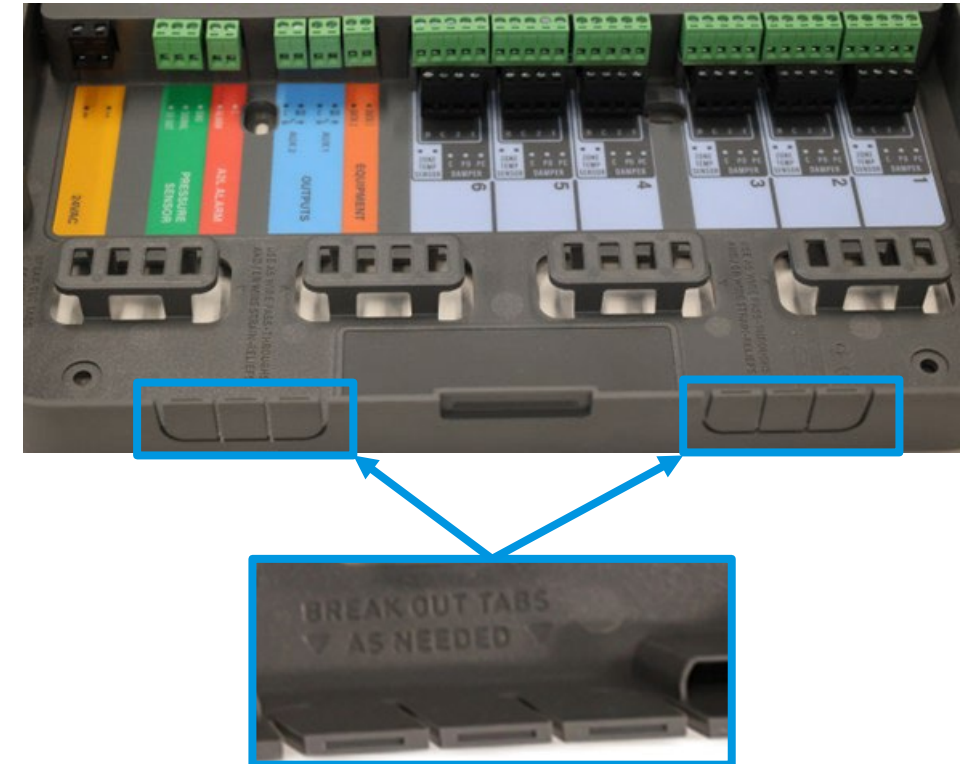
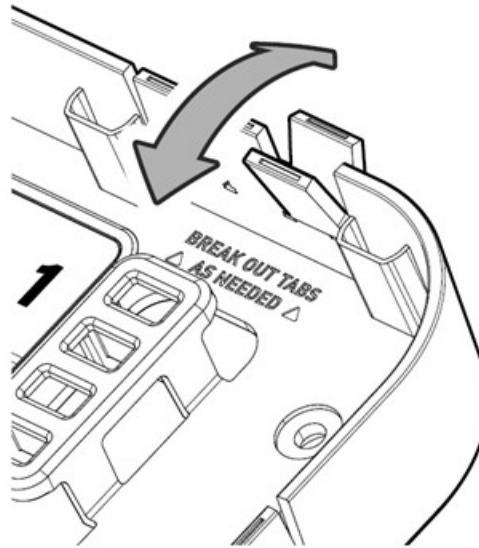
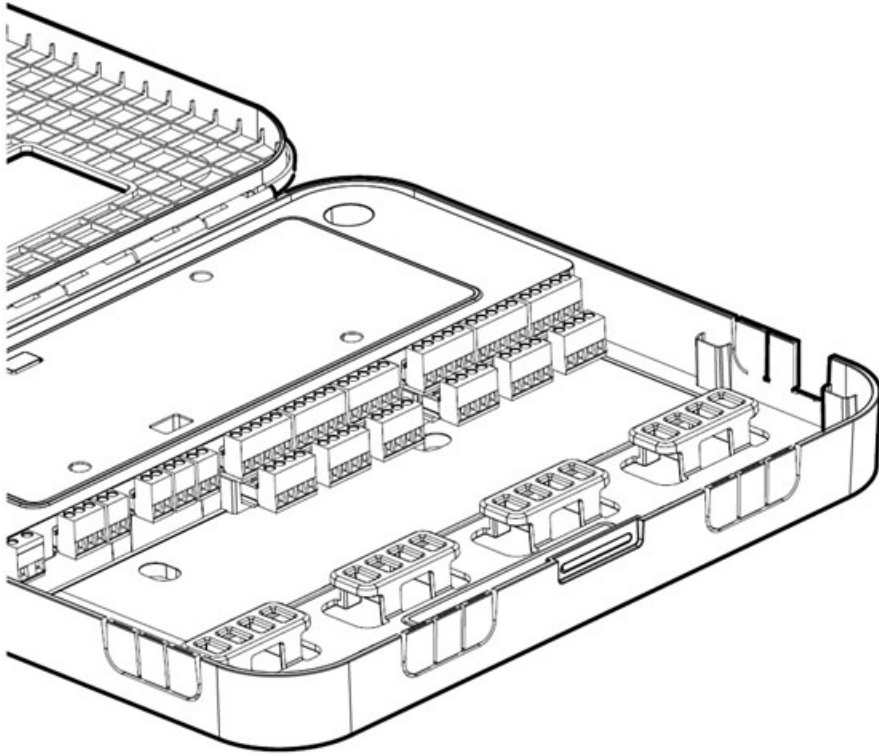
Used for panel mounting



Installing the Control Panel

Routing Wires

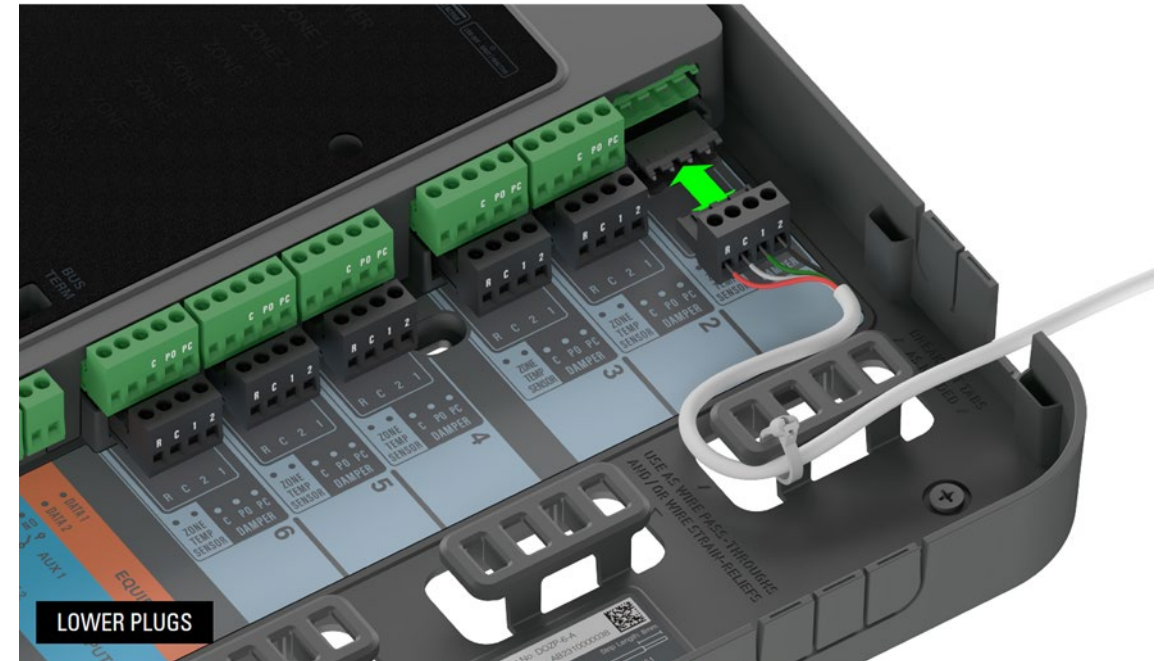
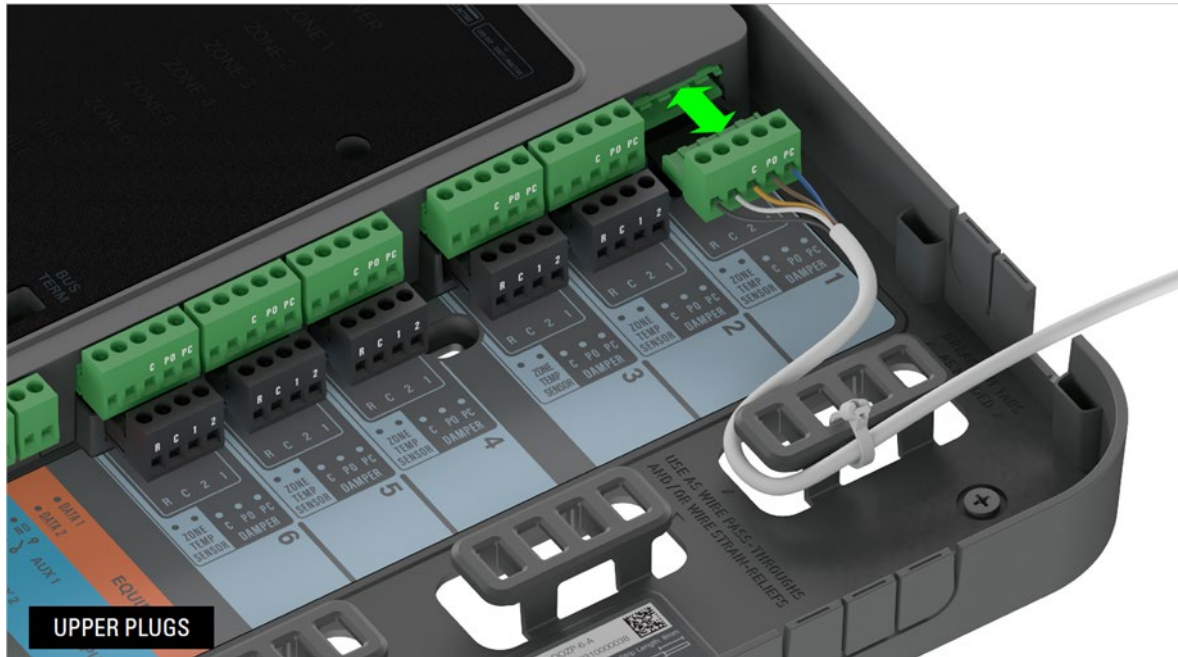
Remove individual break-away dust tabs from exit ports by hand or use pliers as needed



Installing the Control Panel

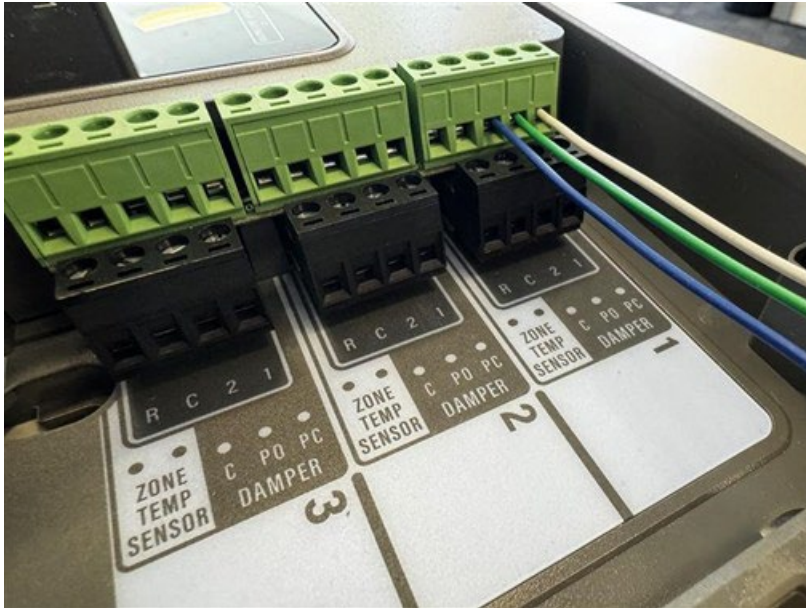
Connecting Wires to Control Panel

- Remove terminal blocks as needed to connect leads from thermostats and zone dampers.
- Zip-tie or route leads through tie-down platforms
- Route leads out to equipment through provided exit ports
- Reinsert terminal blocks.



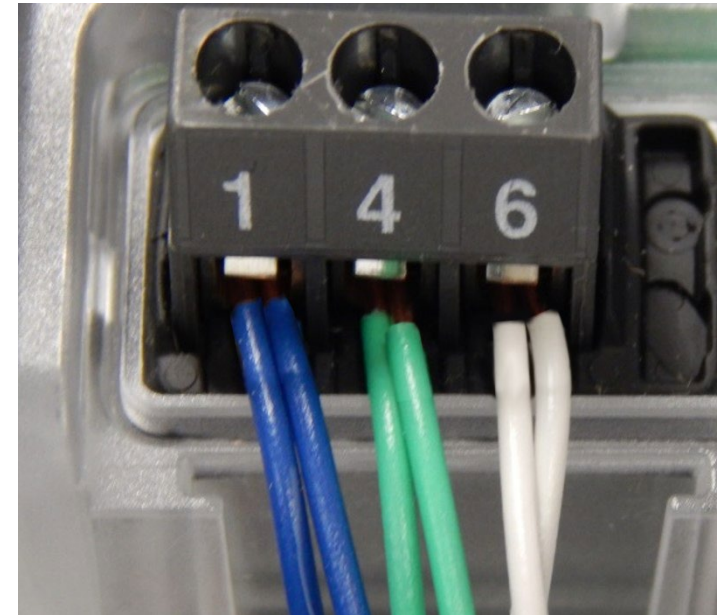
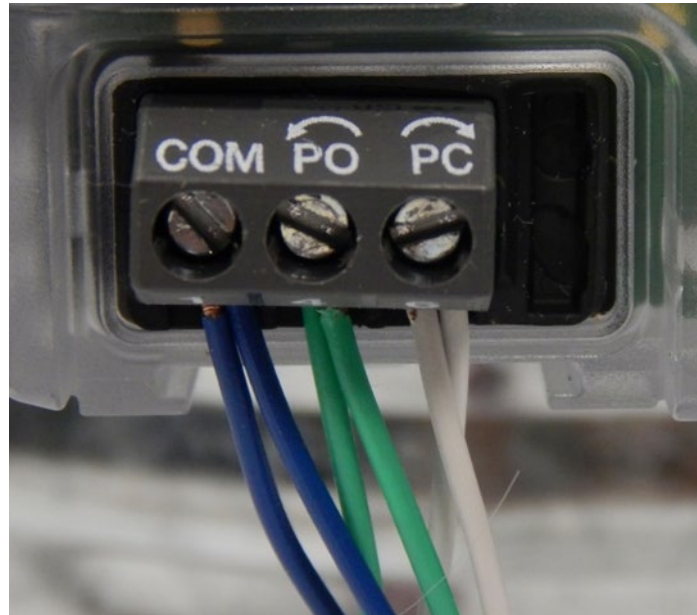
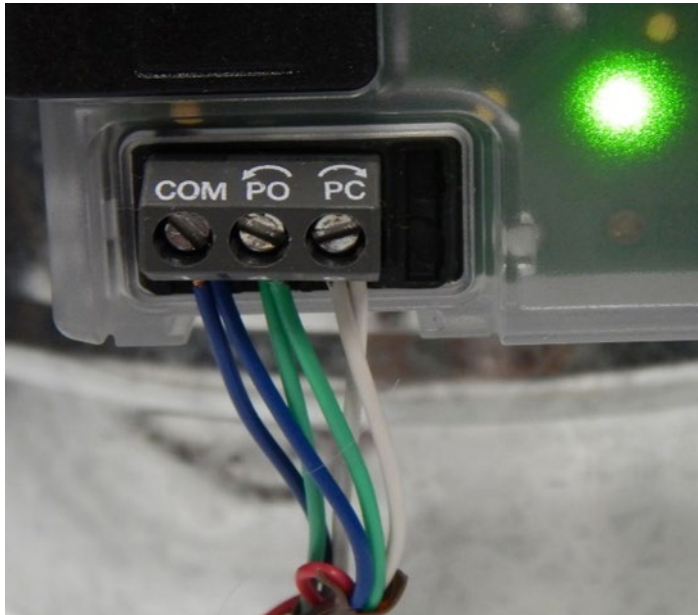
Terminal Block Designation & Function

- Standard 24vac damper control.
 - Terminal PC - 24vac power to close the damper.
 - Terminal PO - 24vac power to open a damper.
 - Terminal C - 24vac common. (neutral)



Wiring Multiple Dampers Into One Damper Terminal

- You can connect up to 6va worth of dampers to a single zone.
- Three sets of damper wires can be daisy-chained into one damper terminal. (two shown here)

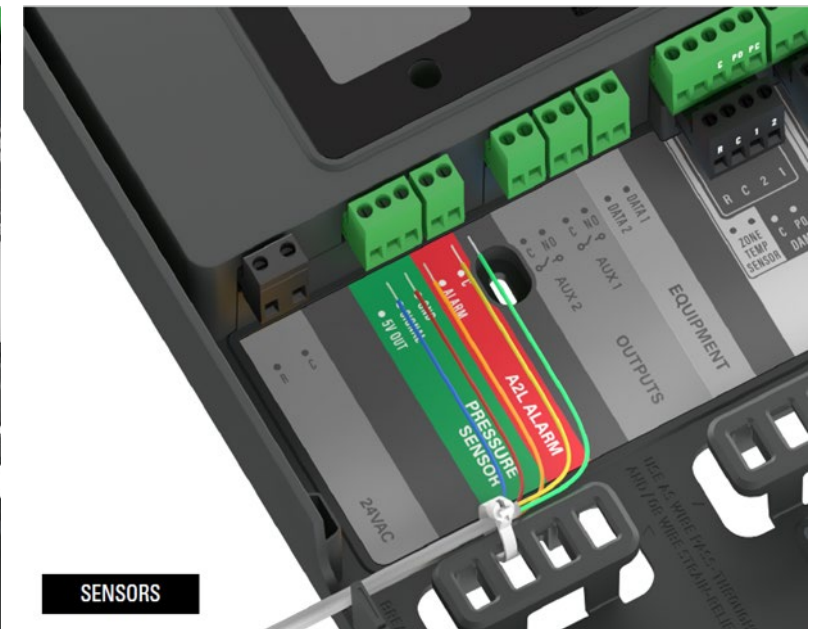
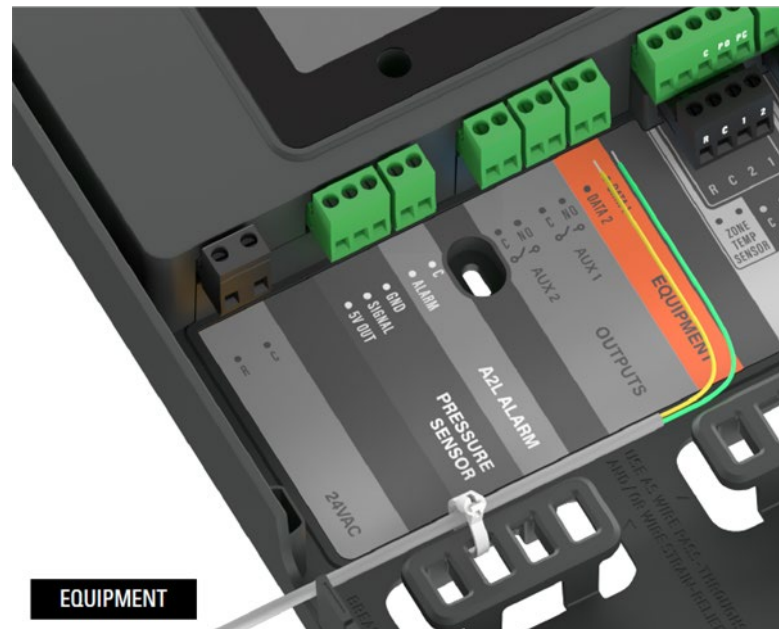
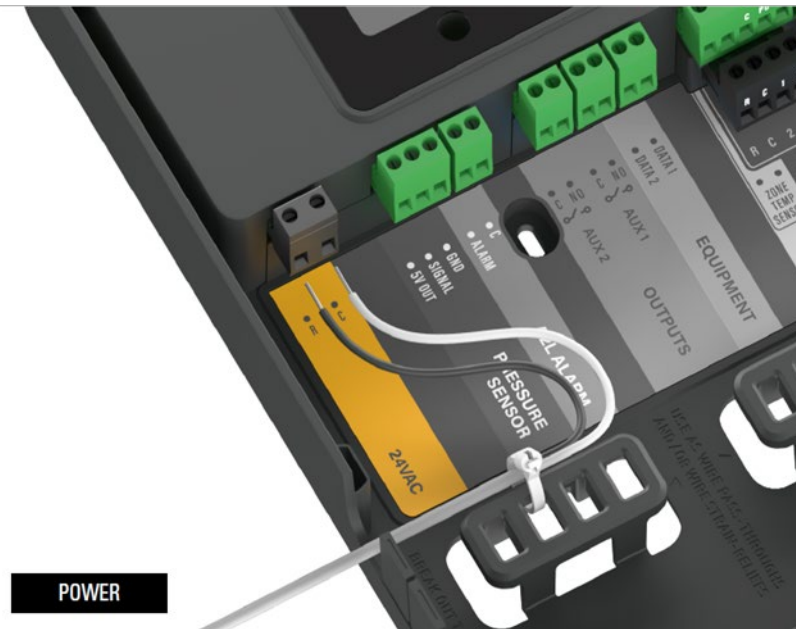


You **CANNOT** connect any RSD or competitor's spring type damper to the Daikin Zoning Panel

Installing the Control Panel

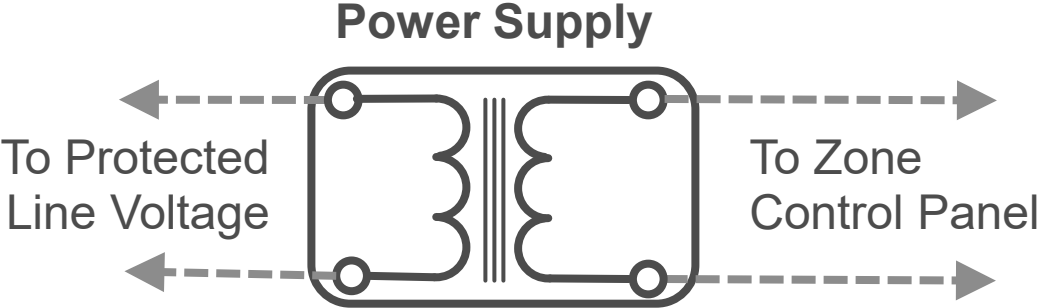
Connecting Aux and Data Wires to Control Panel

- Remove power terminal block, data terminal block and A2L Alarm terminal block.
- Zip-tie or route leads through tie-down platforms
- Route leads out to equipment through provided exit ports

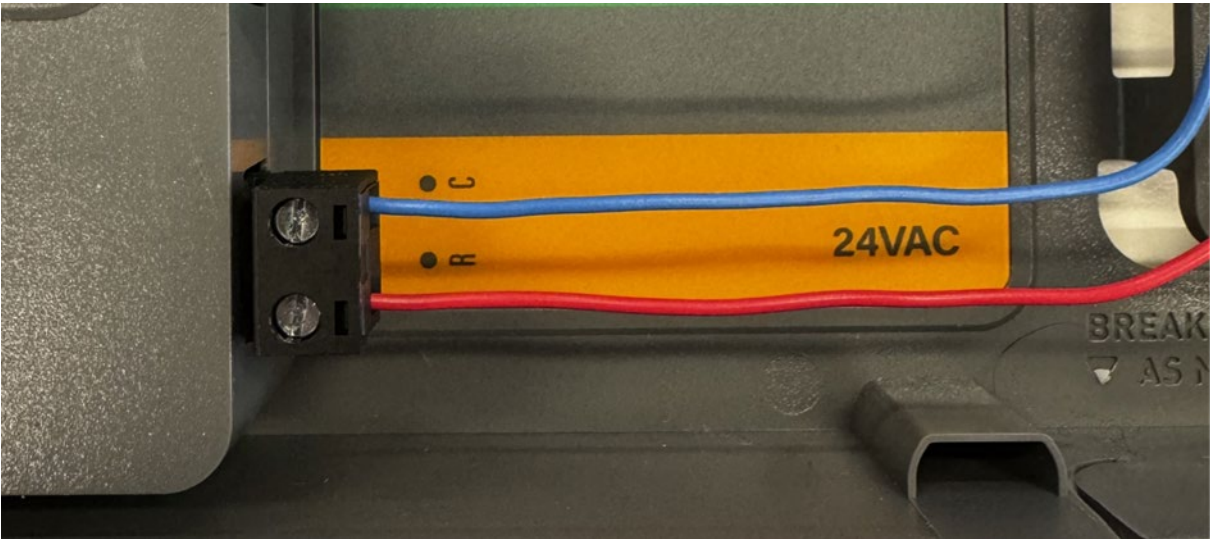


Power and Wiring

- Daikin requires installing a separate transformer to power the Daikin Controller.
- Follow NEC and/ or local electrical codes.



Power Supplied * Dedicated * Listed Transformer
24vac 40va Min/100va Max



Transformer	Dampers	Wired Thermostat
40VA	Up to 6	Up to 3
100VA	Up to 24	Up to 6

Transformer Calculation

- A field supplied 24Vac transformer is required to power zone panel, thermostats and dampers. The total zone system VA is based on worst-case condition. The table below shows how to calculate the worst condition VA for transformer selection.

Unit	VA Each
Daikin <i>One+</i>	6
Zone Panel	2.5
Dampers	1.5

Example: for a system with 2 Daikin *One+* thermostats and 4x1.5VA dampers

Unit	VA Each	Quantity	Total VA
Daikin <i>One+</i>	6	2	12
Zone Panel	2.5	1	2.5
Dampers	1.5	4	6
Total			20.5

A 40VA transformer is sufficient for this example.



Unit	VA Each
Daikin <i>One+</i>	6
Zone Panel	2.5
Dampers	2.5

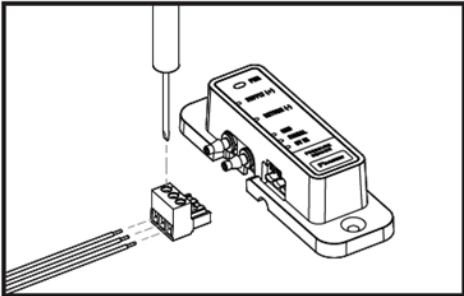
Example: for a system with 4 Daikin *One+* thermostats and 10x2.5VA dampers

Unit	VA Each	Quantity	Total VA
Daikin <i>One+</i>	6	4	24
Zone Panel	2.5	1	2.5
Dampers	2.5	10	25
Total			51.5
Is a 40VA transformer sufficient for this example?			No

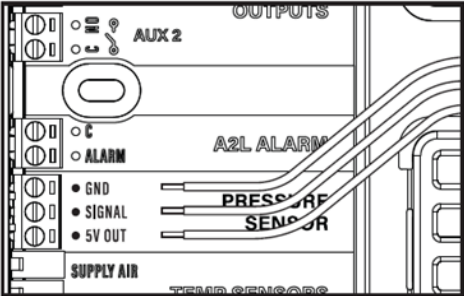
Differential Pressure Sensor

Location and Installation

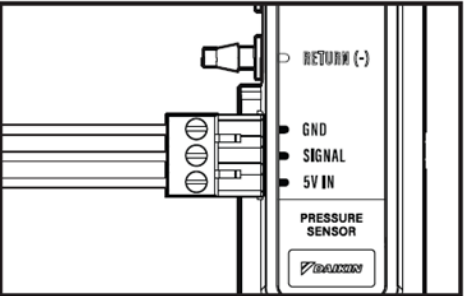
- Pitot tubes will need to be mounted in the return and supply air plenums.
- Pressure sensor should be mounted between the pitot sensor locations.



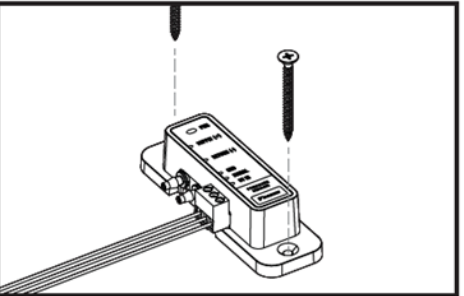
Overview
Connecting the Differential Pressure Sensor to the Zone Controller



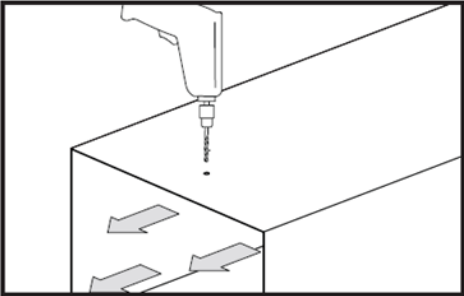
1. Wiring
GND → GND
SIGNAL → SIGNAL
5V OUT → 5V IN



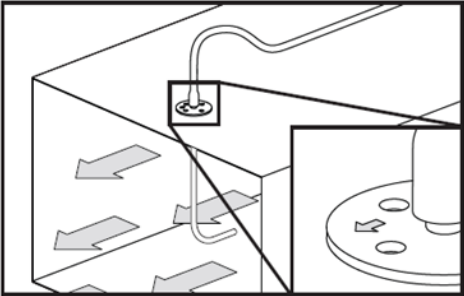
2. Wiring Complete
Plug in the terminal block to the Sensor Housing.



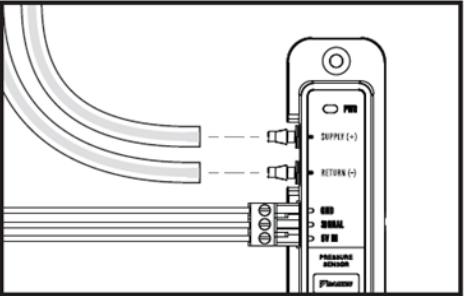
3. Mount Sensor Housing
Mount the sensor using installer-supplied screws in a convenient position between pitot tube sensor locations in step 4.



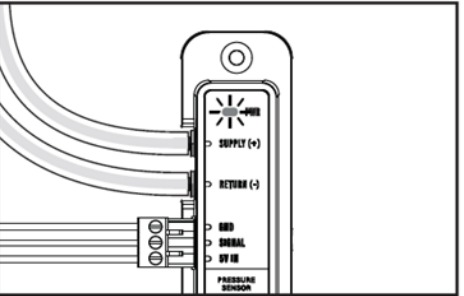
4. Pitot Tubes
Drill 5/32" holes in Supply Air and Return Air ducts. Insert pitot tubes, arrows aligned with airflow.



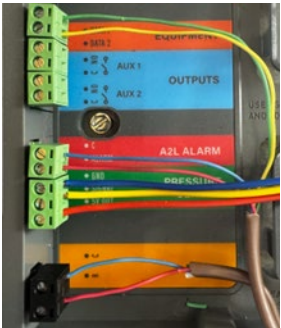
5. Mount Pitot Tube Sensors
Mount and secure pitot tubes as needed with 4 screws, Ensure the *arrow on the pitot tube base is aligned with airflow.*

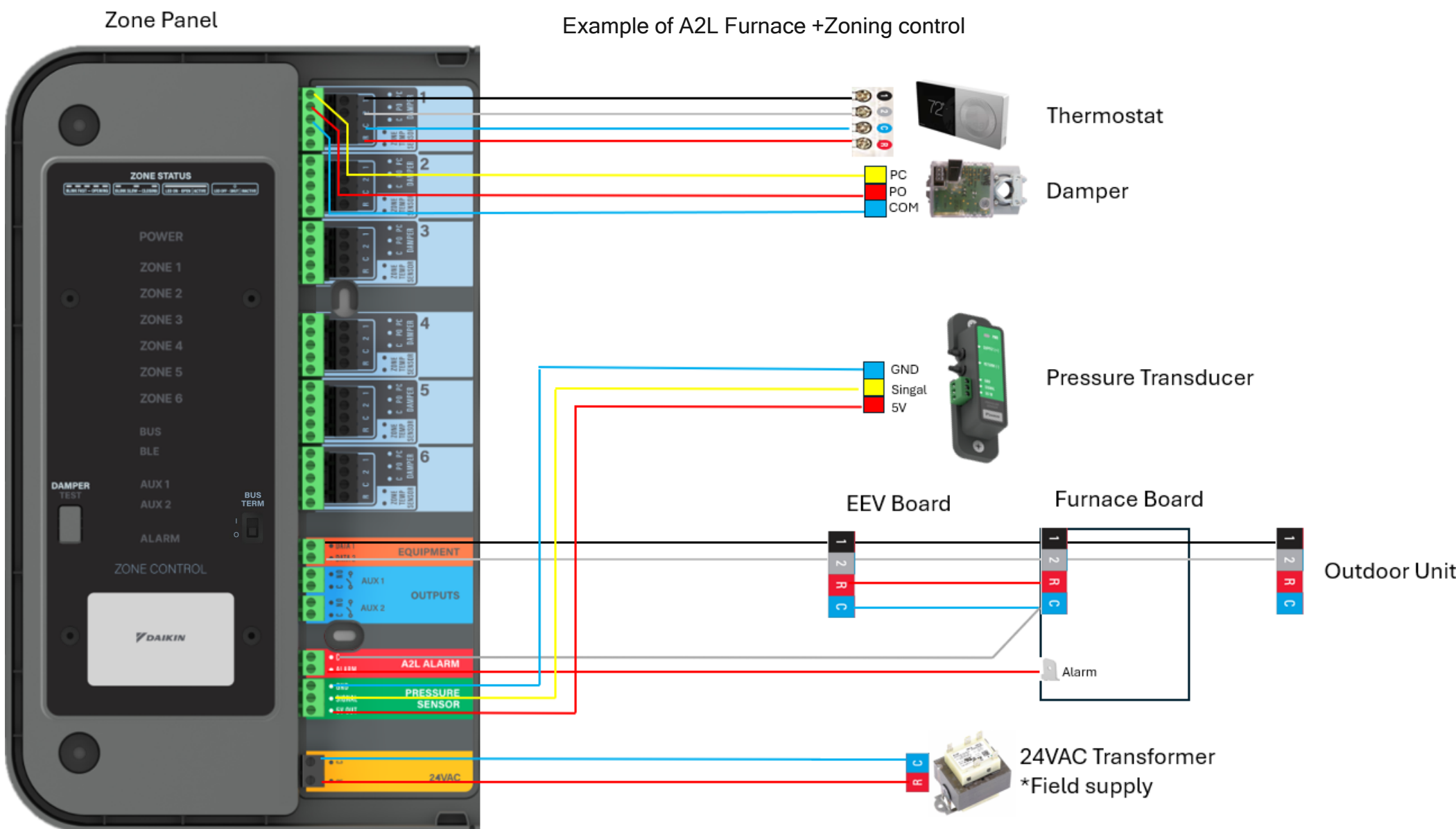


6. Connect Tubing
Cut tubing to the required lengths.
Supply (+) -> Supply duct pitot tube.
Return (-) -> Return duct pitot tube.

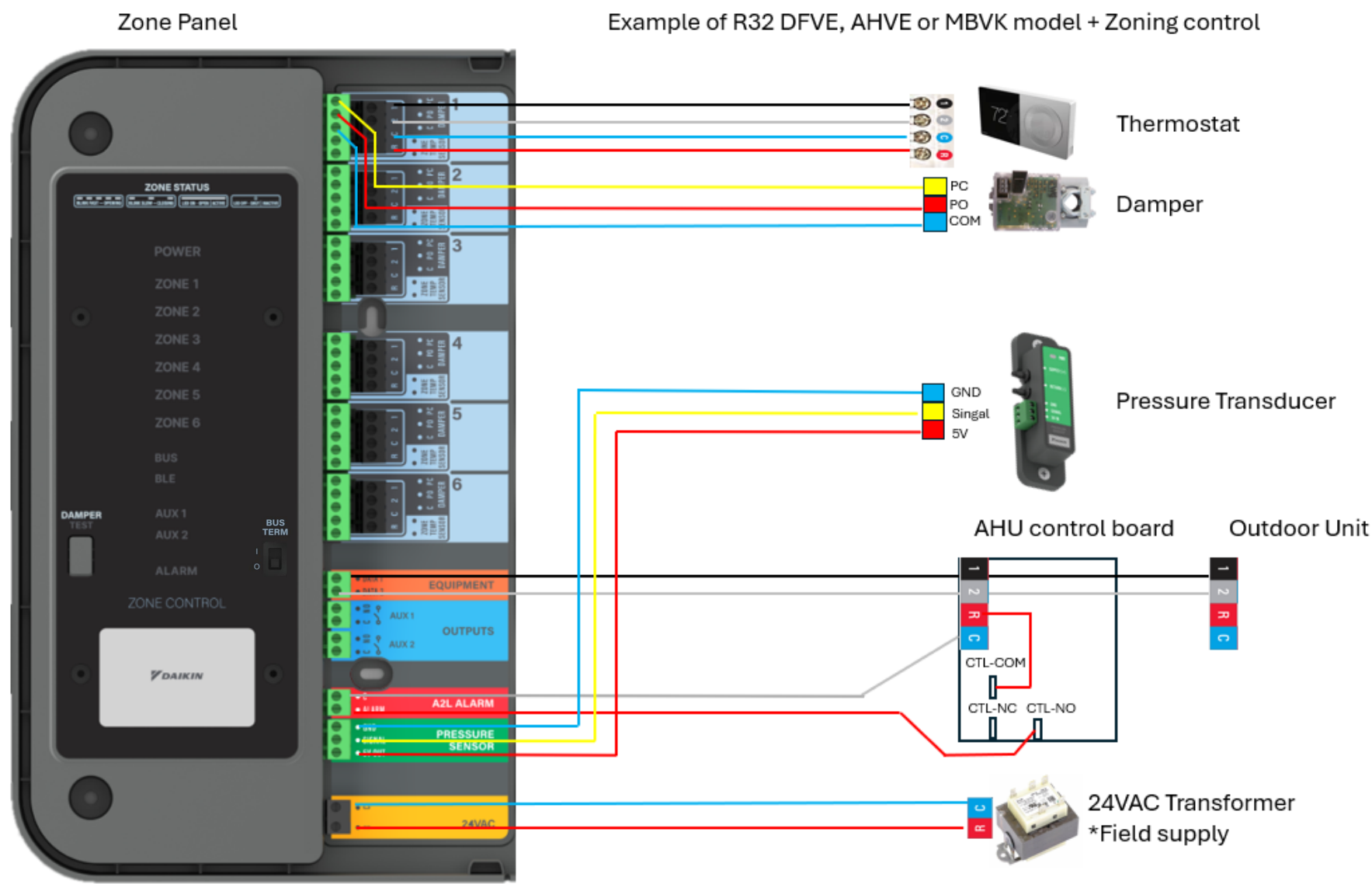


7. Power Up & Verify
Verify the Green "PWR" LED on sensor is lit.
Enable sensor on thermostat.

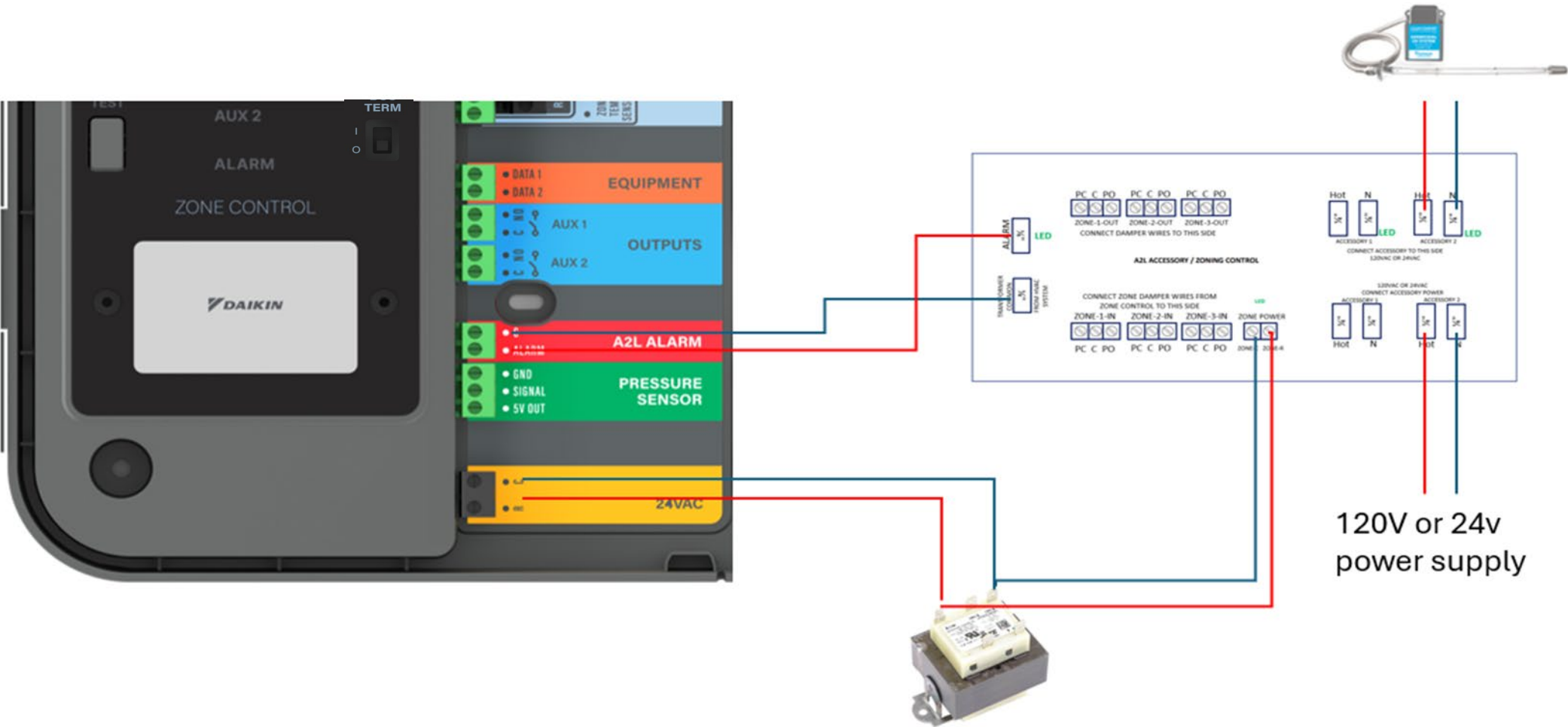




Wiring with Air Handler Unit

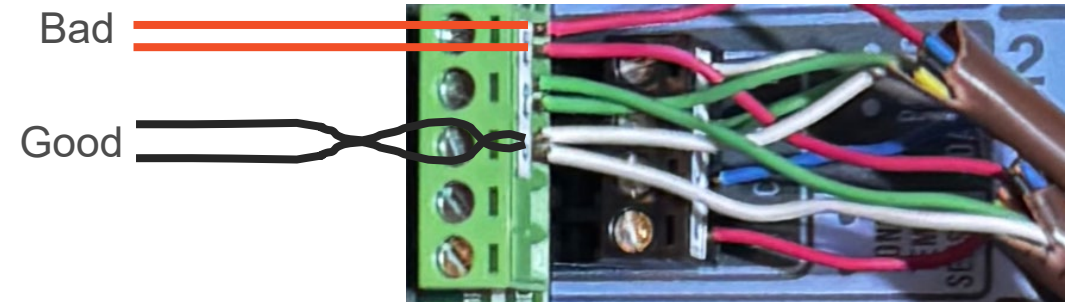
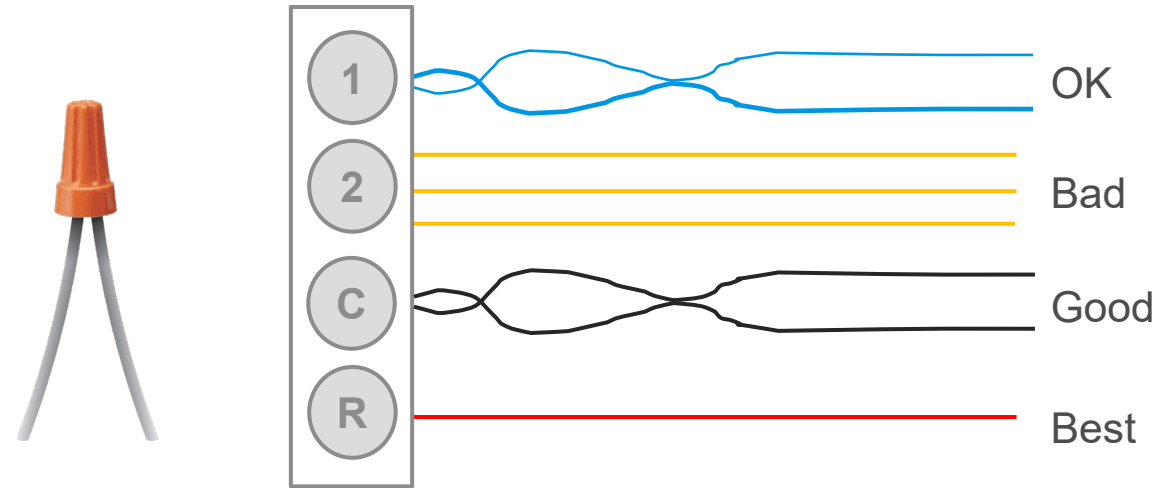


Accessory Board Wiring



Good Communication Wiring Practice

- Avoid using different gauge (AWG) wires.
- Never terminate three or more wires inside a single communication terminal.
- If two wires are terminated inside a single terminal, twist the exposed copper together prior to inserting the wires into the terminal.
- When using wire caps, insert the wires into the cap and utilize the cap to twist the wires. Avoid twisting the wires prior, this will diminish the connection.
- Always make a one-to-one connection when possible!
- Maintain a bias voltage of 0.6-0.9vdc.
 - DO NOT switch the BUS TERM switch on the Zone Board. Should remain in the “OFF” position.



Agenda

Tools and Resources

Zone Control Features

Installation

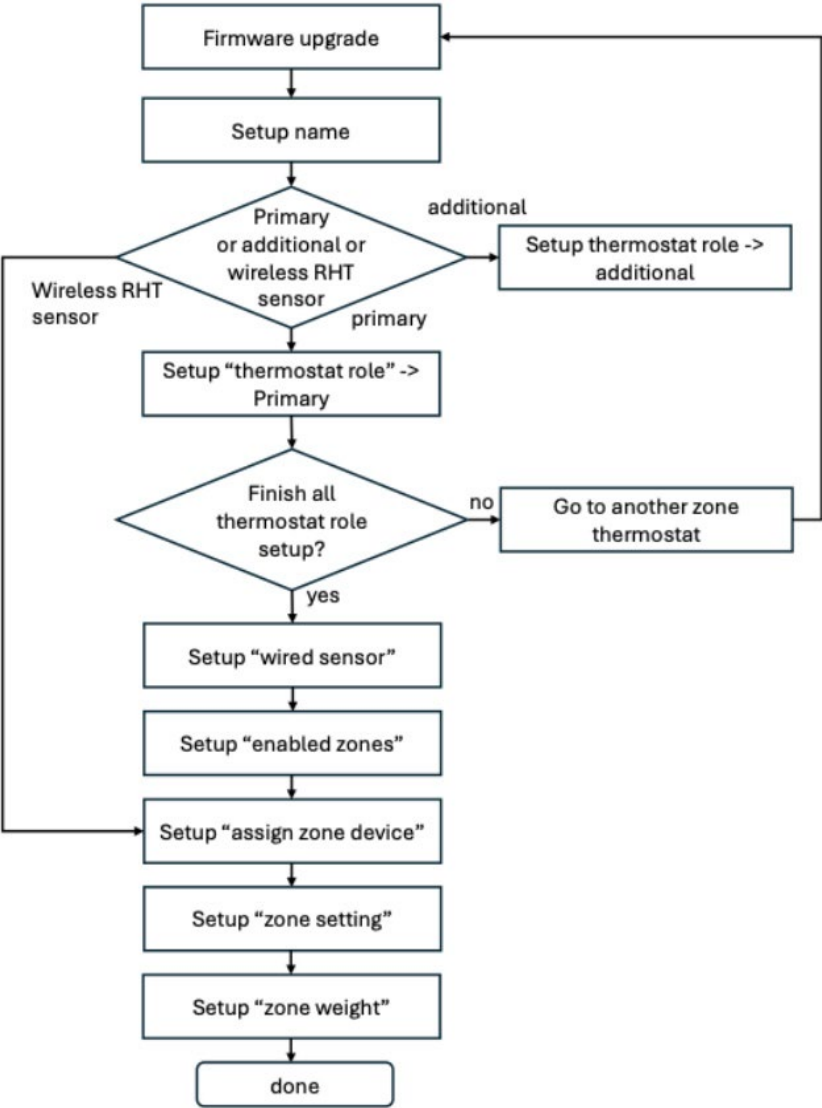
Commissioning and Set-up

Dealer Navigation

SkyportCare

Troubleshooting

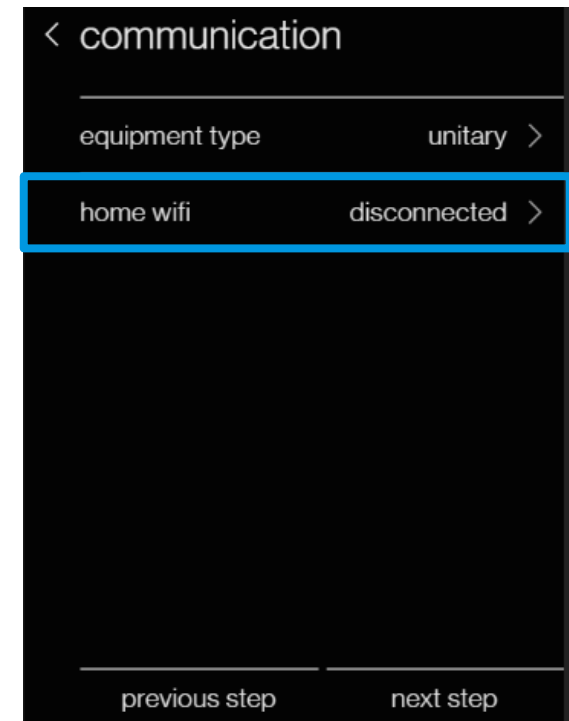
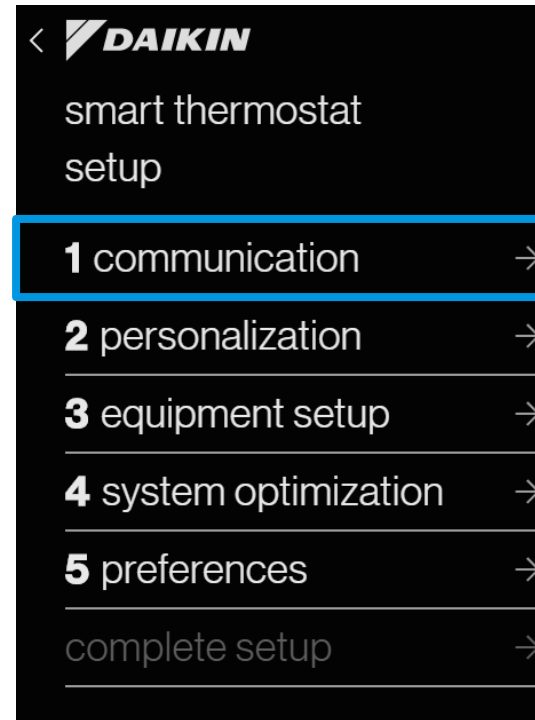
Commissioning Flow Chart





Thermostat Firmware Upgrade

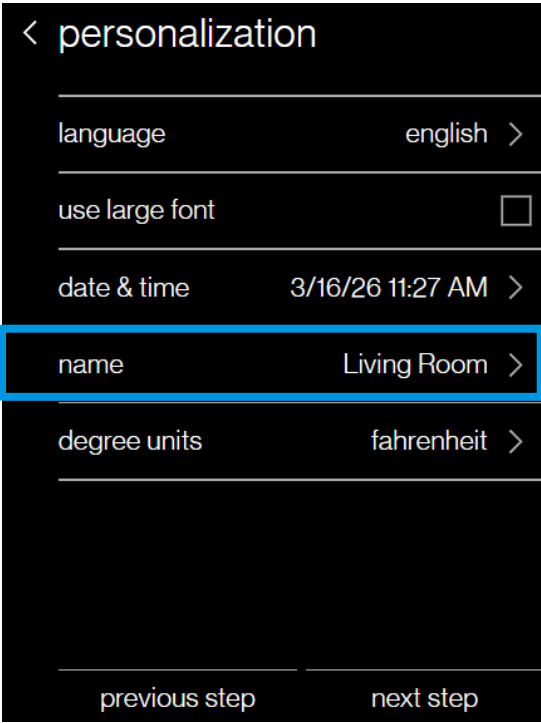
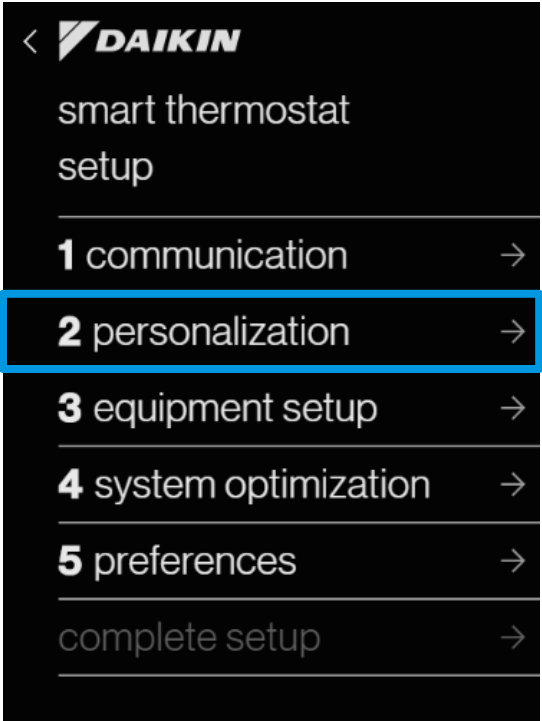
- In smart thermostat setup screen, choose “communication” menu, setup the Wi-Fi connection. Thermostats will automatically update to latest firmware. After update, thermostat will automatically reboot.
 - Note: You will need to update firmware on every thermostat connected to the zone panel before commissioning.
 - Note: If more than 3 thermostats update at the same time, it may take longer for update to complete. Please do not proceed before all updates are completed.
 - All commissioning steps will be performed through the primary thermostat except for naming additional thermostats, connecting RHT sensors, and connecting the thermostat to the Wi-Fi.



Commissioning can be performed on the thermostat or VIA *SkyportCare*.

Setup Thermostat Name

- In each smart thermostat setup screen, choose “personalization”. Update each thermostats name. Assign a different name to each zone thermostat. This will help you in future screens when you assign each device to its specific zone.
 - If you do not name each thermostat, every thermostat that is not named will read “main room”. This will lead to confusion when you go to assign each device to its designated zone.





Setup Thermostat Role

- In smart thermostat setup screen, choose “equipment setup”. Choose “zone board”. Choose “thermostat role”.
 - At first power up, all thermostats' roles will be set to “additional” automatically. If no primary is selected, thermostat will report an E36 error and give an alert. The IDU will report an E77 error code (not finding thermostat).
- Set Zone 1 as primary thermostat. After a primary thermostat is selected, indoor E77 will go away.
- If multiple thermostats are selected as primary, thermostat will pop up an alert.

No primary thermostat

A primary thermostat needs to be selected.

Select "set as primary" below if this is the zone 1 thermostat.

dismiss

set as primary

Multiple primary thermostats

Multiple primary thermostats detected. All thermostats except primary need to be additional zone.

Make this thermostat's role an additional zone?

dismiss

set as additional

< DAIKIN

smart thermostat setup

✓ 1 communication

✓ 2 personalization

3 equipment setup

4 system optimization

5 preferences

complete setup

< equipment setup

COMMUNICATING EQUIPMENT:

heat pump DH7VSA4810

gas furnace DR80TC0804CNAA

EEV coil

zone board DOZP6A

ADDITIONAL EQUIPMENT:

media filter

previous step

next step

< zone board ⓘ

Daikin DOZP-6-A
Communicating Zone Board

specifications

thermostat role primary

wired sensors

✗ enable zones

✗ assign zone devices

✗ zone settings

start zoning wizard

enable zoning

< thermostat role

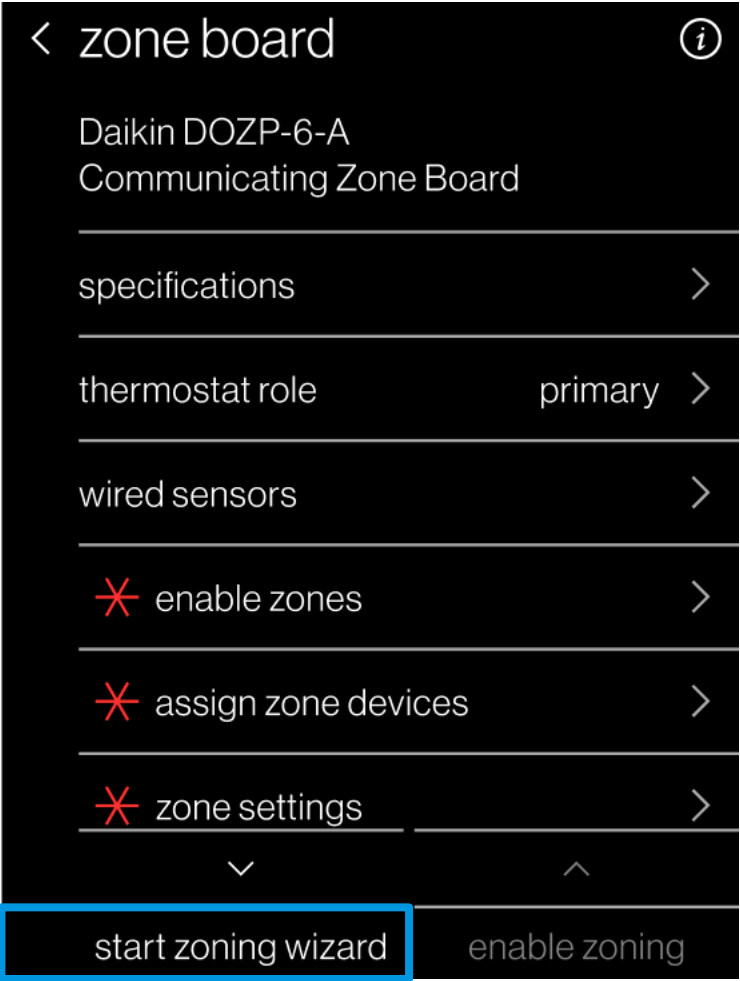
The primary zone thermostat must be in zone 1.

primary zone

additional zone

Start Zoning Wizard

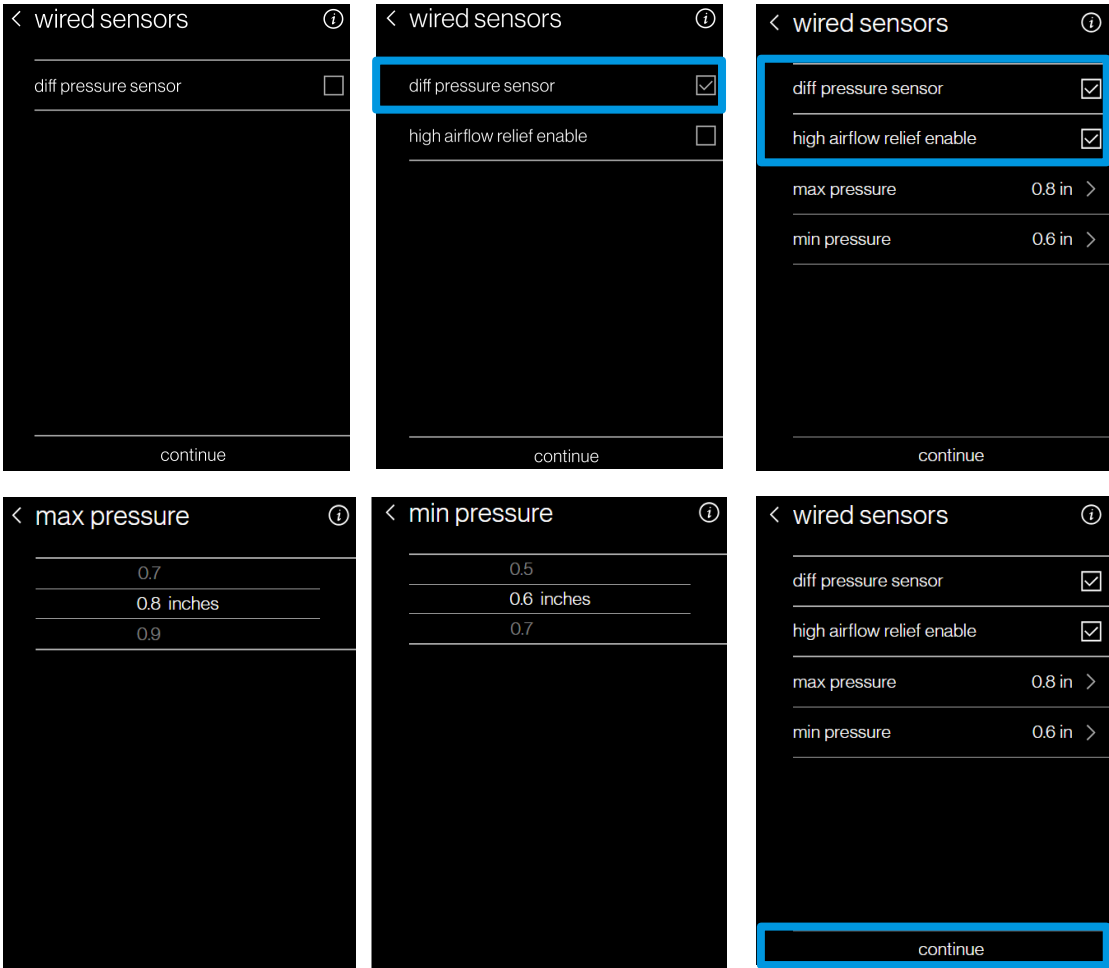
- After assigning the thermostat role, you will start the zoning wizard in the zone board menu. The zoning wizard will take you through each step of the commissioning process for the Daikin Zone Panel.



Setup Wired Sensor

- Pressure sensor is unchecked by default. Enable the pressure sensor by checking “diff pressure sensor”.
- Enable high airflow relief feature.
 - When enabled, if the zone board detects static pressure higher than “max pressure”, it will activate high airflow relief and open all dampers 100% for 5 minutes.
 - After 5 minutes, zone board will check if static pressure is lower than “min pressure”, if lower, zone board will exit high airflow relief and resume to normal operation. If not, zone board will stay in high airflow relief for another 5 minutes.
- After set up is configured, press continue.

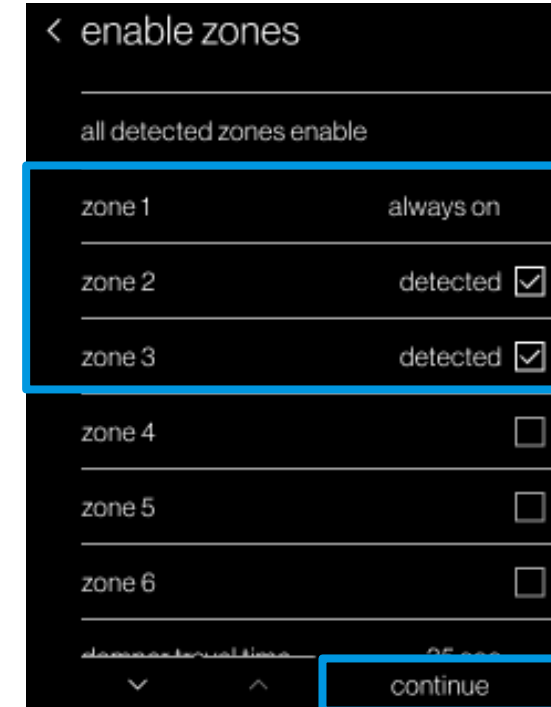
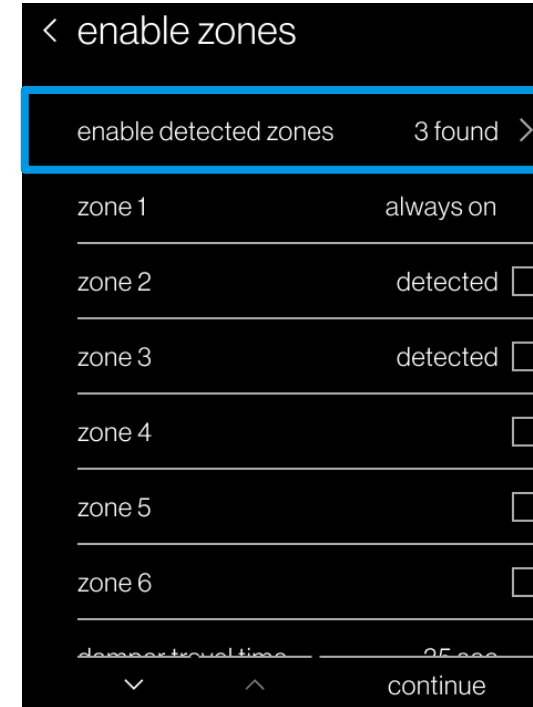
	DEFAULT	RECOMMENDED for Furnace + Coil	Recommended for Air Handler
Max Pressure	0.8	0.8	0.8
Min Pressure	0.6	0.6	0.6



Note: if pressure transducer measures include media filter, please subtract media filter pressure drop to “Max pressure”, and “Min pressure”. Media filter pressure drop value could be found in the media filter specification.

Setup “Enable Zones”

- In the “enable zones” screen, zone 1 is “always on”. If any zone shows “detected”, it means the zone board detects a damper. From here you can enable detected zones by selecting the boxes next to each zone.
 - If you do not see a zone damper, go to the panel and damper motors and check all wiring connections.
- When satisfied with the zones that are enabled, press continue. You will get a pop up that will allow you to run auto-weight (recommended).
 - Auto-weight will run in the background as the commissioning process is completed.



Run auto-weight in background?

Auto-weight measures the percentage of airflow to each zone, and runs for approximately 5 minutes per zone.

Existing zone weights will be overwritten with the measurement results, but can be edited in zone weight settings when auto-weight calculation is completed.

skip

run auto-weight



Setup “Assign Zone Devices”

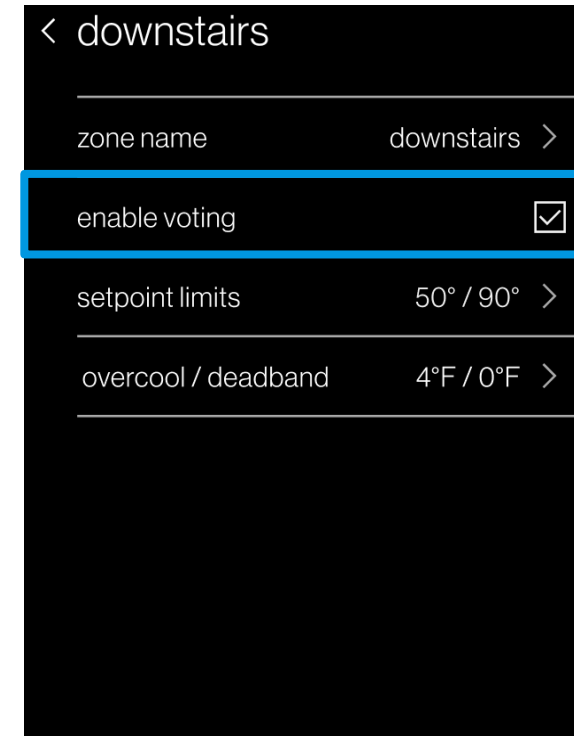
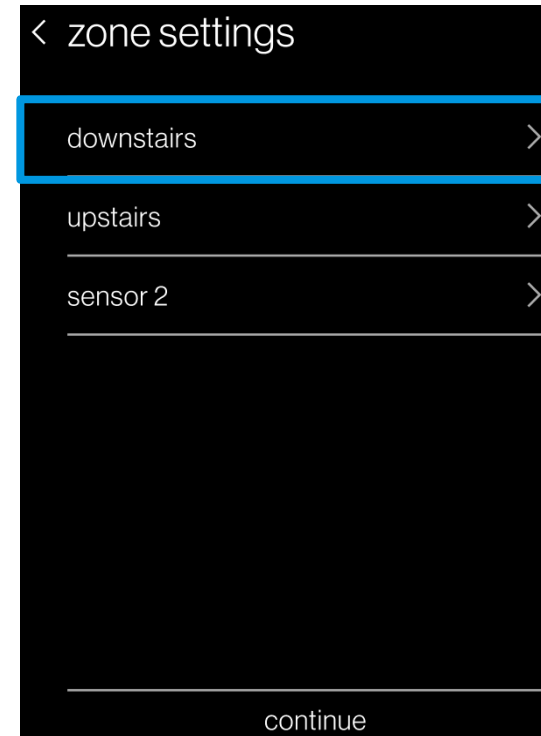
- All connected thermostats and wireless zone sensors will be populated. Thermostats name will be the name assigned in the “personalization” step.
 - If a thermostat is missing, please check wiring.
 - If need to add wireless RHT sensor, follow the instruction in the RHT sensor box.
- Primary thermostat will always be assigned to zone 1.
 - Any device not assigned to a zone will display “unassigned”.
- In “assign zone devices” screen, click on a device, it will display all the enabled zones available. Click to assign to the correct zone.
- After all devices have been assigned press continue.

The image shows three sequential screenshots of the 'assign zone devices' screen. The top-left screenshot shows the initial state where 'downstairs' is assigned to 'zone 1' and 'upstairs', 'sensor 1', and 'sensor 2' are 'unassigned'. The top-right screenshot shows the 'upstairs' selection screen where 'zone 2' is selected. The bottom screenshot shows the final state where 'downstairs' is 'zone 1', 'upstairs' is 'zone 2', 'sensor 1' is 'zone 1', and 'sensor 2' is 'zone 3'. A 'continue' button is at the bottom.

Device	Zone
downstairs	zone 1
upstairs	zone 2
sensor 1	zone 1
sensor 2	zone 3

Setup “Zone Setting”

- In the zone board screen, choose “zone setting”. It shows all zone thermostats and zone RHT sensors.
- Click the device to enter setup screen. In setup screen, the zone name, enable voting, setpoint limits and overcool/deadband options show up.
- Enable voting:
 - if checked, this zone can independently call for cool/heat.
 - If unchecked, this zone cannot independently call for cool/heat. It will only heat/cool while there is another zone calling.



Setup “Zone Setting” cont’

- Setpoint limits and overcool deadband can be addressed here for each individual zone.
- Setpoint limits allows you to set min/max set points for individual zones.
- Deadband allows you to set the gap between heating and cooling when using auto mode.
- Overcooling to dehumidify will allow you to set how far you want to overshoot setpoint in an attempt to reach your dehumidification setpoint.

< downstairs

zone name

downstairs >

enable voting

☒

setpoint limits

50° / 90° >

overcool / deadband

4°F / 0°F >

< setpoint limits

Minimum heating and maximum cooling setpoints for this zone:

89°

50° — 90°

51°

< deadband / overcool

Overcooling allowed to dehumidify:

0

1 °F

2

Temperature setpoint deadband:

3

4 °F

5

The overcool value is overlayed on the deadband, increasing the range to maintain minimum cool/heat differential of at least 2°.

Setup “Zone Weight”

- When you get to the zone weight menu and “auto weight” has not completed, you will see a message that shows how much time you have remaining for auto-weight to complete.
- When “auto weight” completes, zone weight will show the weight for each zone. You can then manually adjust the zone weight.

< zone weight

Auto-weight calculation estimated time to complete: 5 minutes.

Waiting for system fan to stop.

first floor	--
upstairs	--
bedroom	--

stop auto-weight

continue

< zone weight

Auto-weight completed successfully.

first floor	600 CFM / 50%	>
upstairs	300 CFM / 25%	>
bedroom	240 CFM / 20%	>

run auto-weight

continue

< first floor

Zone weight represents the maximum airflow that this zone can accommodate.

1	5	1	1
0	6	0	0
9	7	9	9

auto-weight result

600 CFM

calculated weight

50%

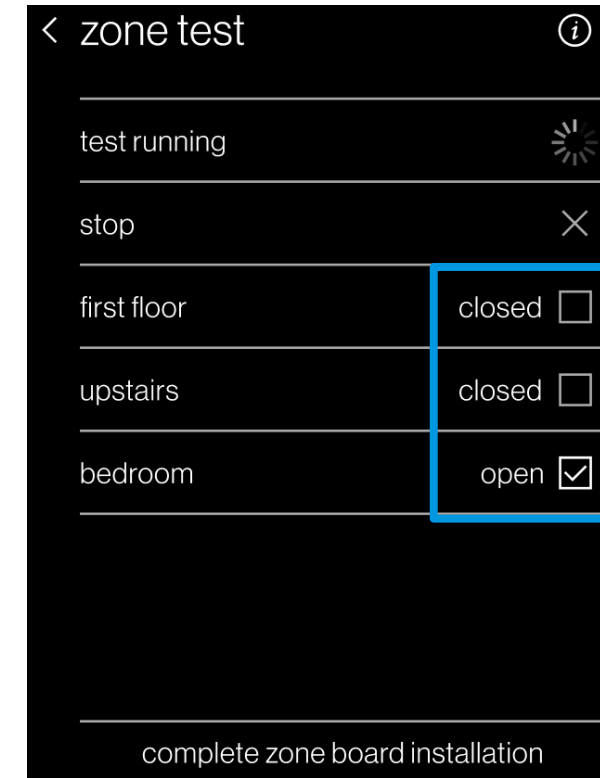
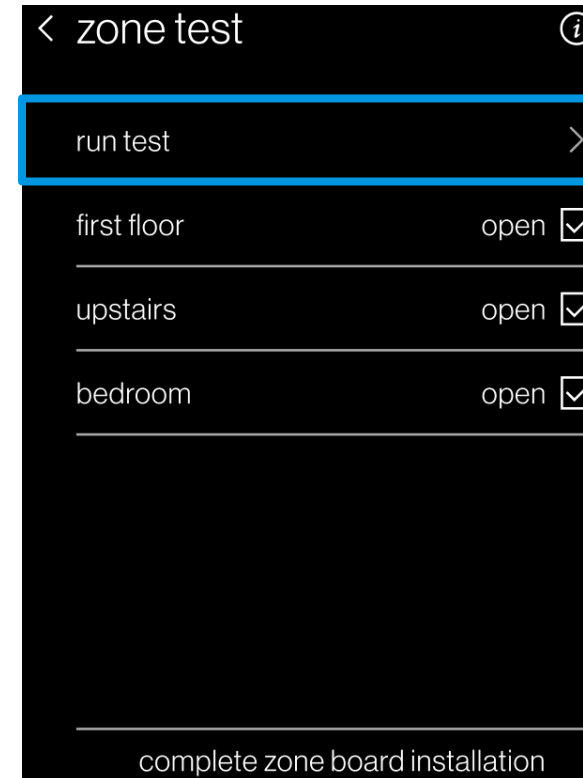
outdoor max CFM

1200 CFM

restore auto-weight result

Zone Test

- In zone test, choose “run test”.
 - Installer can use this test to verify damper operation and airflow for each zone.
 - When a zone is checked, it will open all dampers for that zone and run the CFM assigned to it in “zone weight” for that zone.
 - If a zone is unchecked, it will close that zone.
 - **Zone test does not time out, it is a manual start/stop.**
- While zone test is running, installer can go back to “zone weight” screen to fine tune the weight to achieve best performance.
 - After zone weight adjustment, please allow up to 1 minute for damper to adjust.

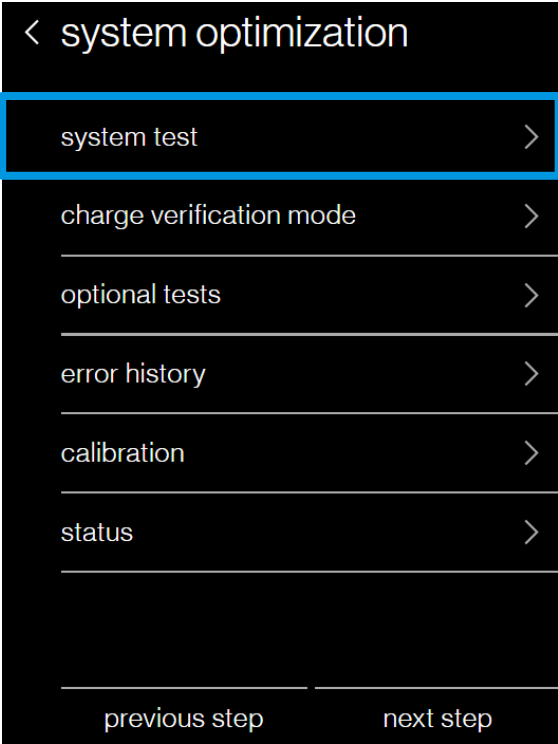
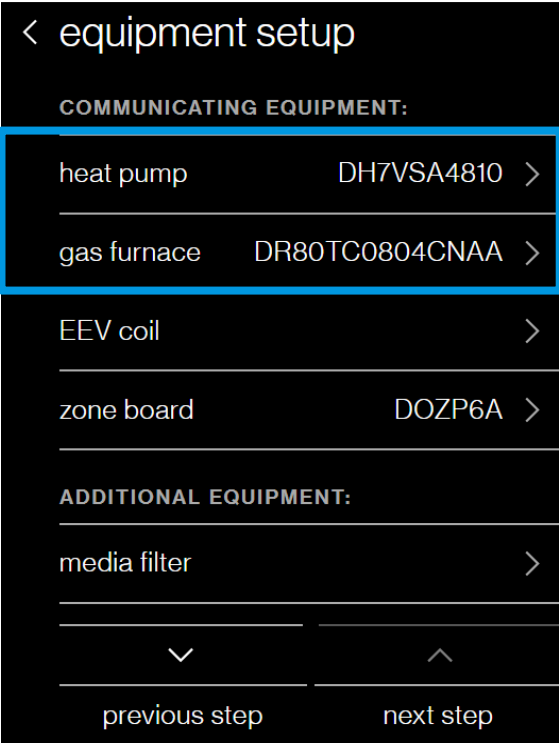


Select “complete zone board installation” to finish



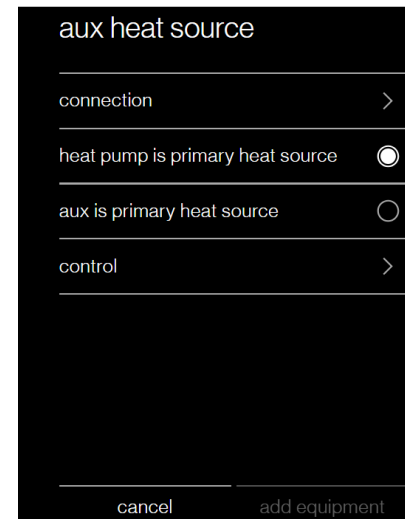
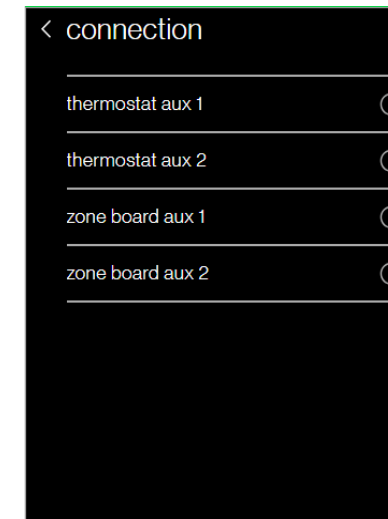
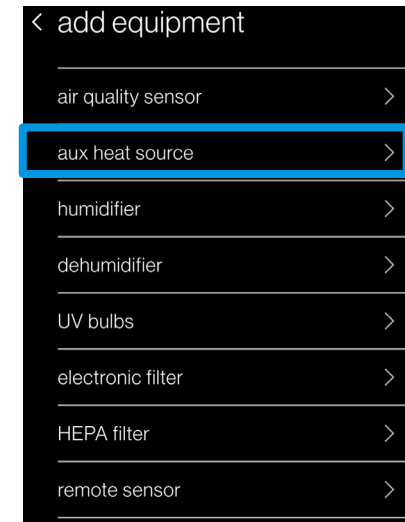
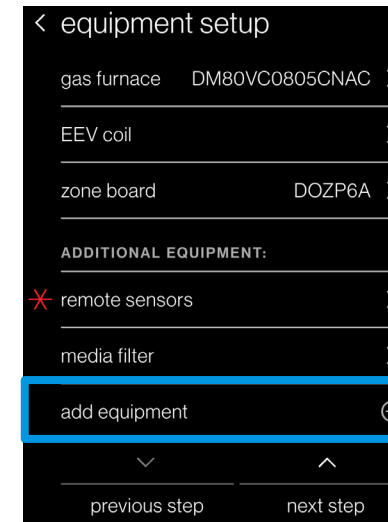
Completing Zoning Commissioning

- After completion of the zoning commissioning, continue with the system commissioning process.
 - Refer to product Installation Manual.



Aux Output Port Setting

- The zone board provides two dry contact aux outputs
 - From equipment setup > add equipment, in the smart thermostat setup menu, two dry contact aux outputs can be configured to control
 - Aux heat source
 - Humidifier
 - Dehumidifier
- In connection menu, installer assigns device to corresponding aux terminal.
 - Devices can be assigned to thermostat aux terminals or Zone Board aux terminals.
 - Installer can adjust the desired settings for that device.



Agenda

Tools and Resources

Zone Control Features

Installation

Commissioning and Set-up

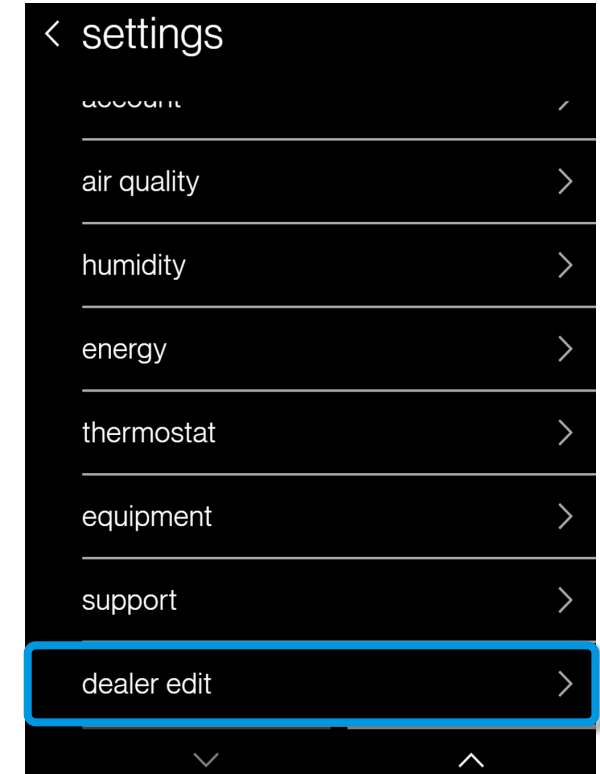
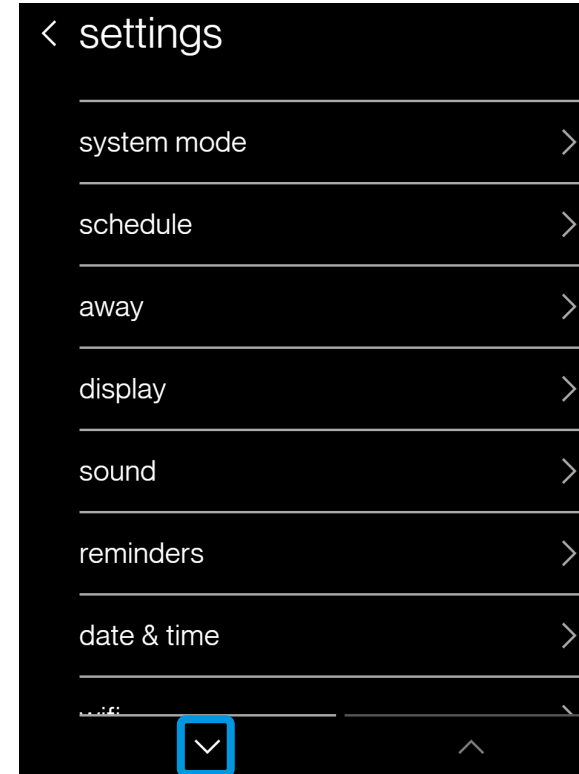
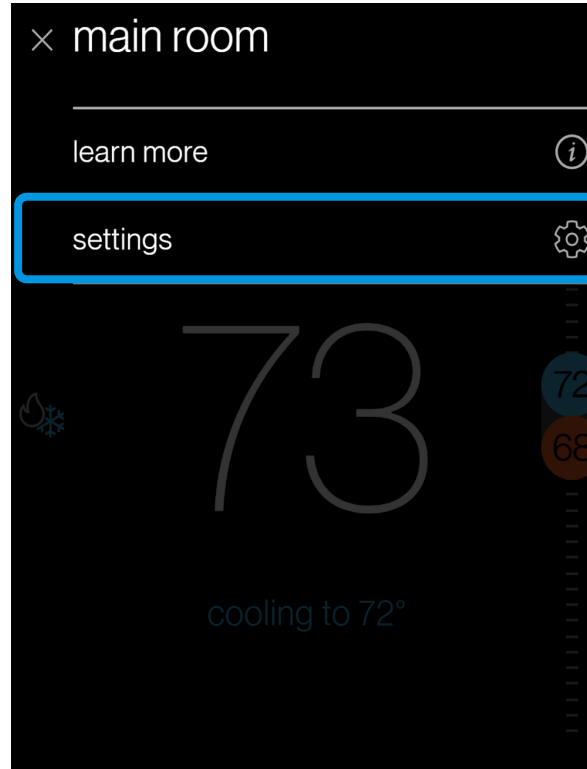
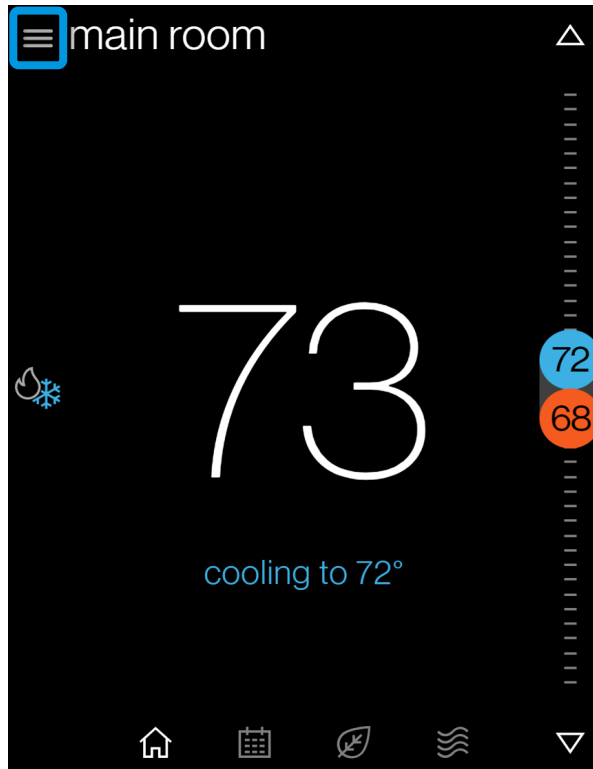
Dealer Navigation

SkyportCare

Troubleshooting

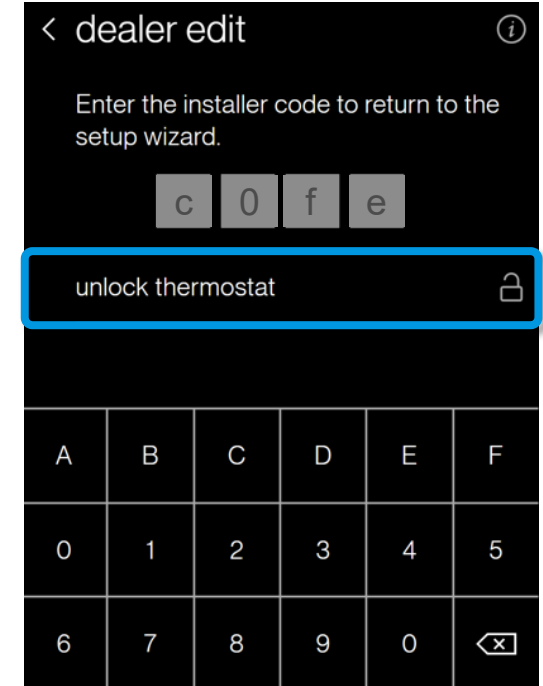
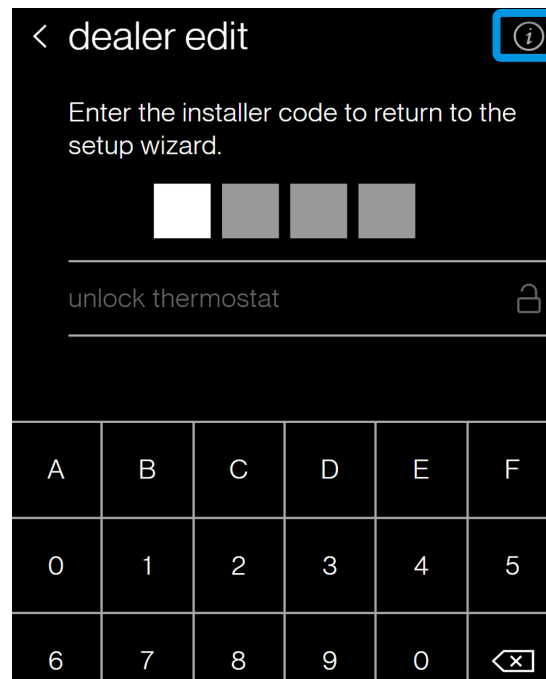
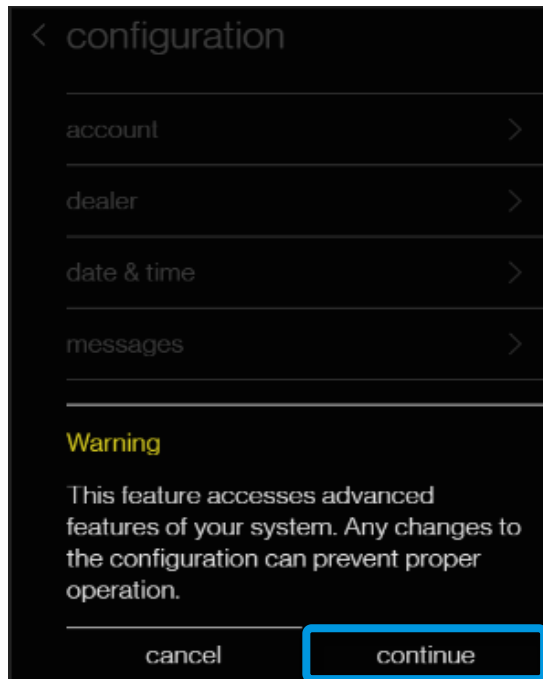
Dealer edit

- Navigating to dealer edit will allow you to access or revisit the installer set-up screen.
- Advanced adjustments to the Smart Thermostats will be made here.



Dealer Navigation

- Acknowledging the “continue” prompt enables you to access the dealer edit screen.
- Press the information icon in the top right corner. It will display the installer code. Get the code and close the screen by pressing the “X”.
- Insert code into the dealer edit screen and press the unlock thermostat button.



Agenda

Tools and Resources

Zone Control Features

Installation

Commissioning and Set-up

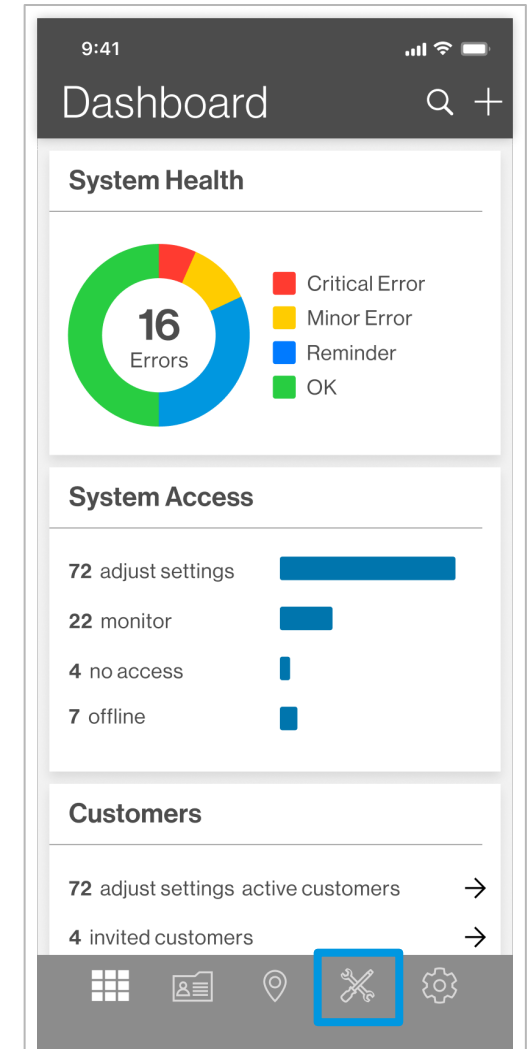
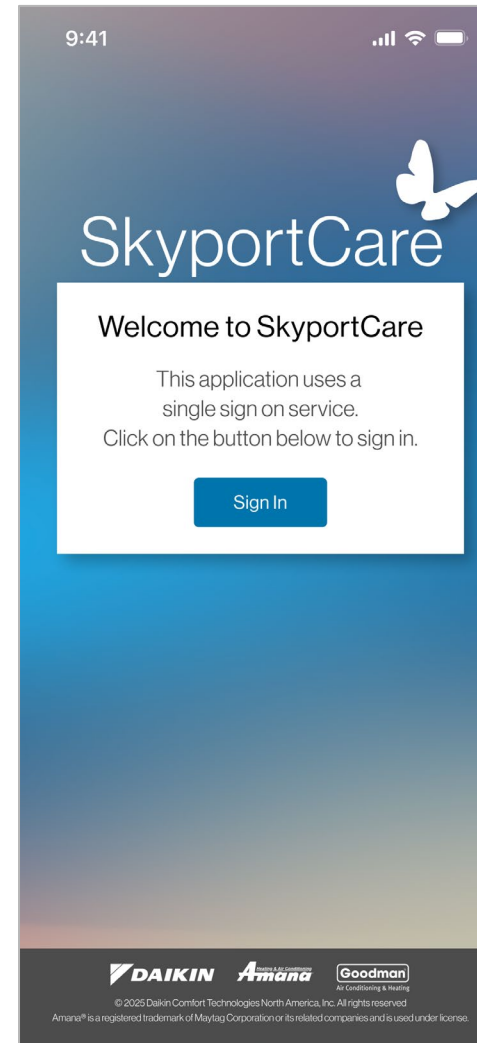
Dealer Navigation

SkyportCare

Troubleshooting

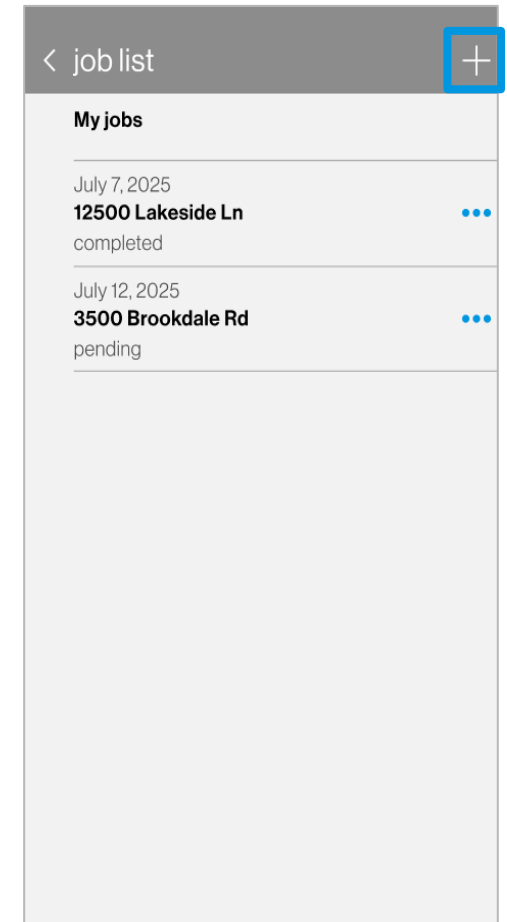
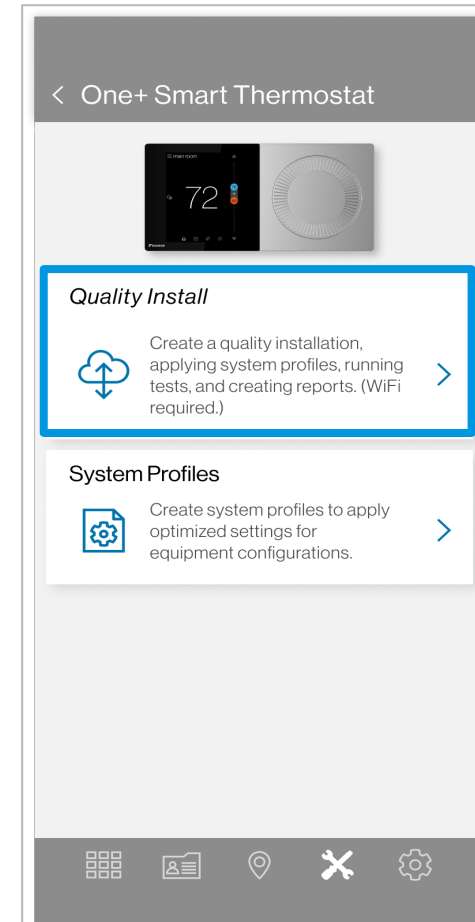
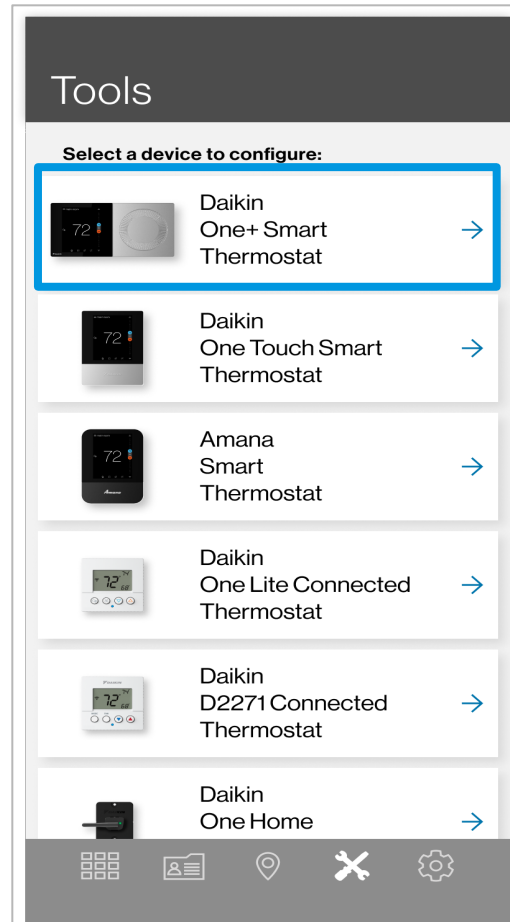


- Verify thermostat is connected to Wi-Fi and updated with the current firmware version.
- Verify the primary zone has been selected on thermostat
- Download the *SkyportCare* app. from your respective app. store.
- You need to create an account to log in
 - User ID and password (case sensitive)
- In *SkyportCare* app, select the tools screen. Then select the thermostats icon to enter job list screen.



Creating Job

- Within the tools section, select the model of the primary thermostat being installed.
- From the thermostat screen select quality install.
- In the job list, add a job by hitting the + in the top right corner.



Add a Job

- When you add a job, you will need to add a location for that job.
- You can manually enter the address for that job or use the GPS location within your phone.
 - If you use your GPS location always double check that the address is correct, before moving on.
- This job will be uploaded to your organizations *SkyportCare* account.
 - This will allow your organization to view and adjust the customers system in the future, with their permission.

< add location

Add location
Add the location where the system is installed.

address

apt/ste

city state

zip code United States

Use GPS Location Continue

< add location

Add location
Add the location where the system is installed.

12500 Lakeside Ln

apt/ste

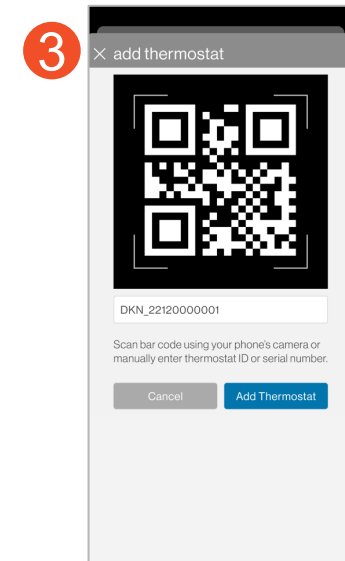
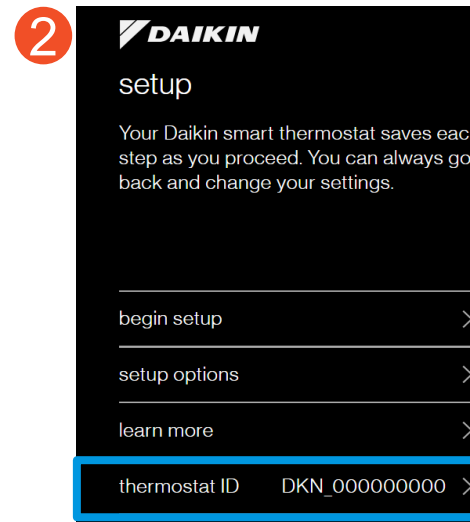
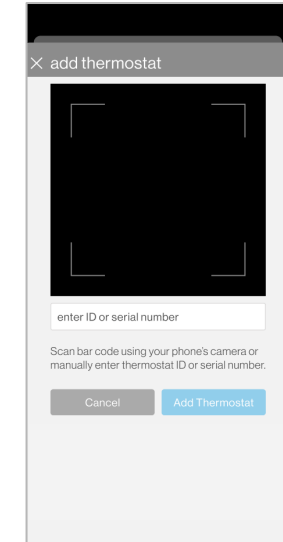
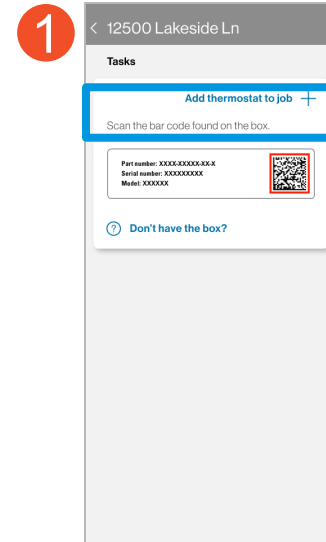
Houston Texas

77079 United States

Use GPS Location Continue

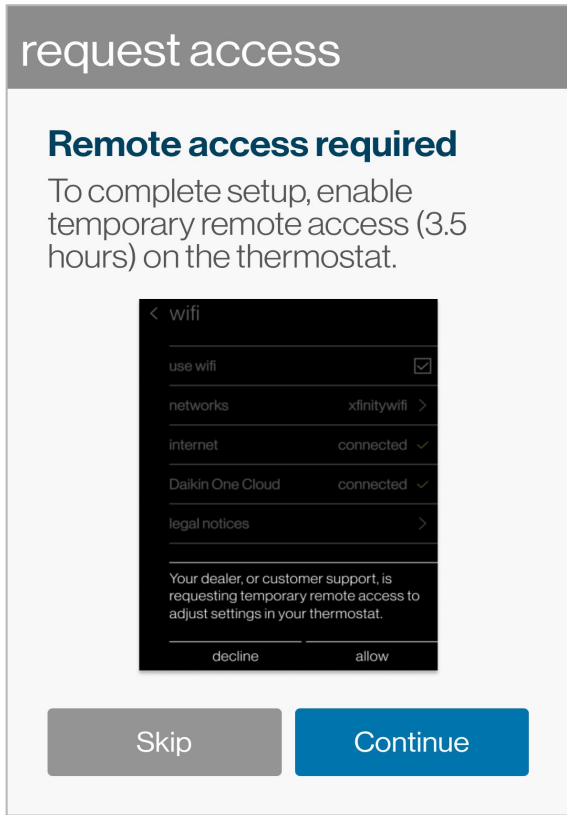
Adding Thermostat

- In job tasks screen, add all thermostats and wireless RHT sensors into the tasks list.
1. In the app, click “Add thermostat to job”.
 2. Go to thermostat, in thermostat setup screen, click “thermostat ID”, QR code will pop up.
 3. Scan this QR code, thermostat DKN number will automatically be populated in the box.
 - For adding wireless RHT sensor, follow sensor instruction.

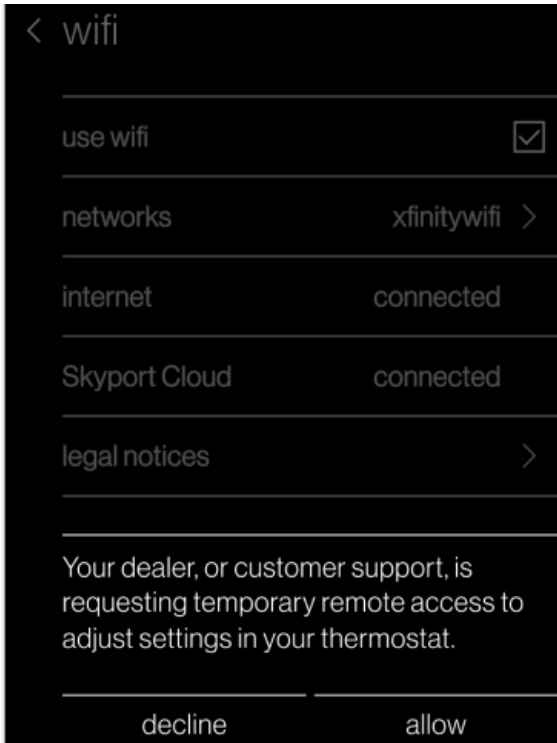


Adding Thermostat Cont'd

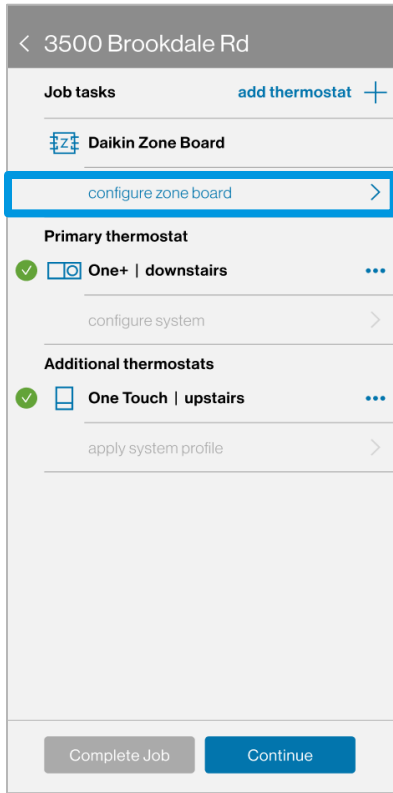
- 4. *Skyportcare* app and primary thermostat will prompt. App will request remote access permission, and thermostat will ask to allow permission.
 - Granting permission will allow remote access for 3.5 hrs.
- 5. Select 'configure zone board' to begin zone board setup.



4

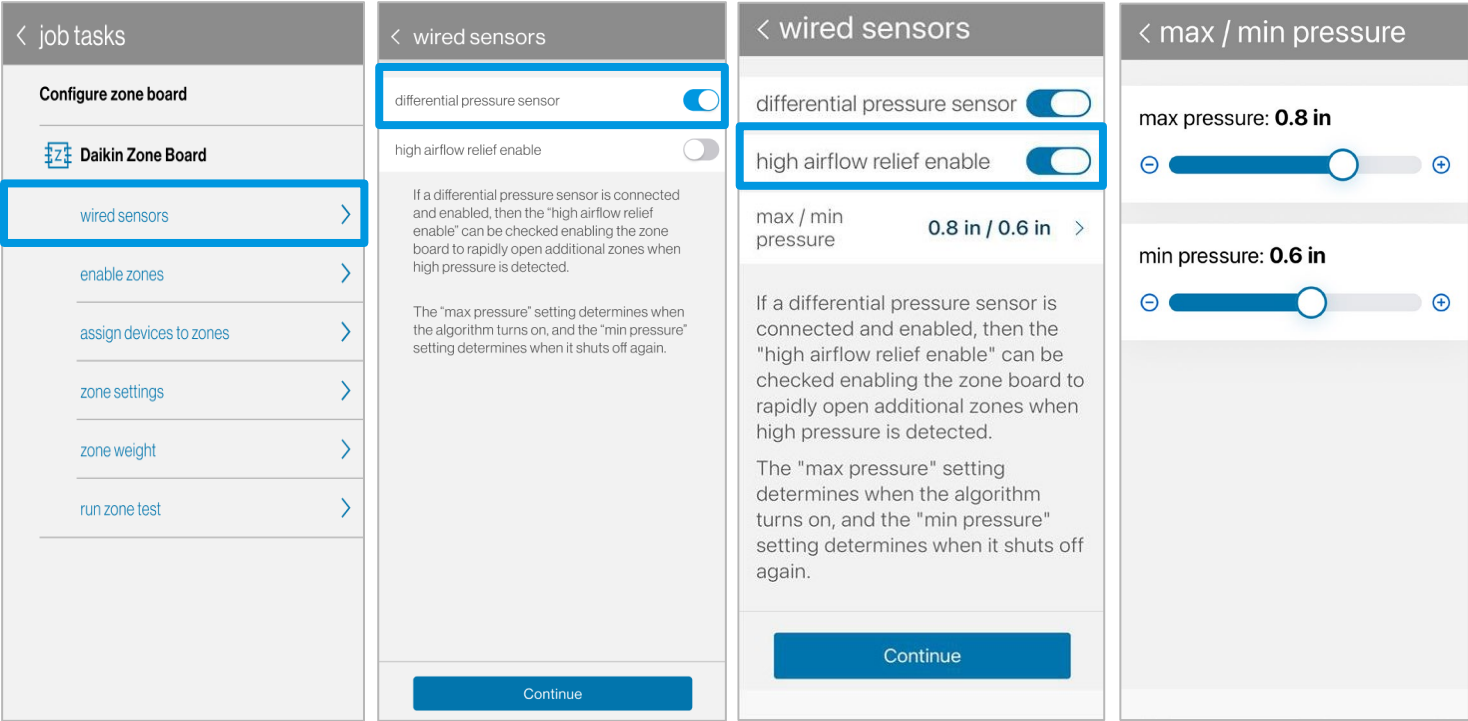


5



Setup Wired Sensors

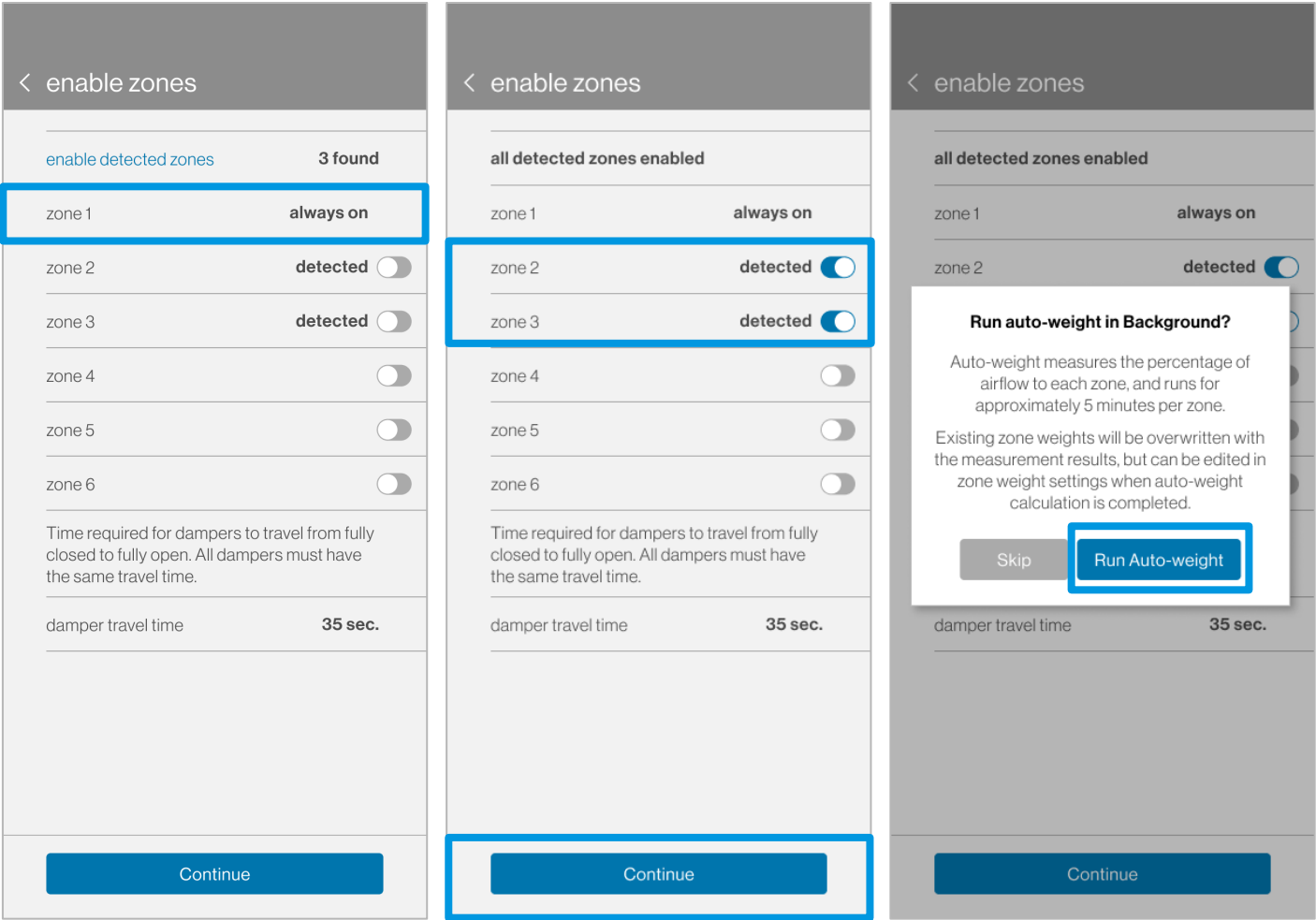
- When you enter the wired sensor menu you will be walked through the commissioning process of the zone board.
- In configure zone board screen, choose “wired sensors”. Pressure sensor is unchecked by default. Turn on “diff pressure sensor” and "High airflow relief".
- Set min/max pressure if needed.
- High airflow relief feature
 - If enabled, when the zone board detects static pressure higher than “max pressure”, it will activate high airflow relief and open all dampers 100% for 5 minutes. After 5 minutes, zone board will check if static pressure is lower than “min pressure”, if lower, zone board will exit high airflow relief and resume to normal operation. If not, zone board will stay in high airflow relief for another 5 minutes.



	DEFAULT	RECOMMENDED for Furnace + Coil	Recommended for Air Handler
Max Pressure	0.8	0.8	0.8
Min Pressure	0.6	0.6	0.6

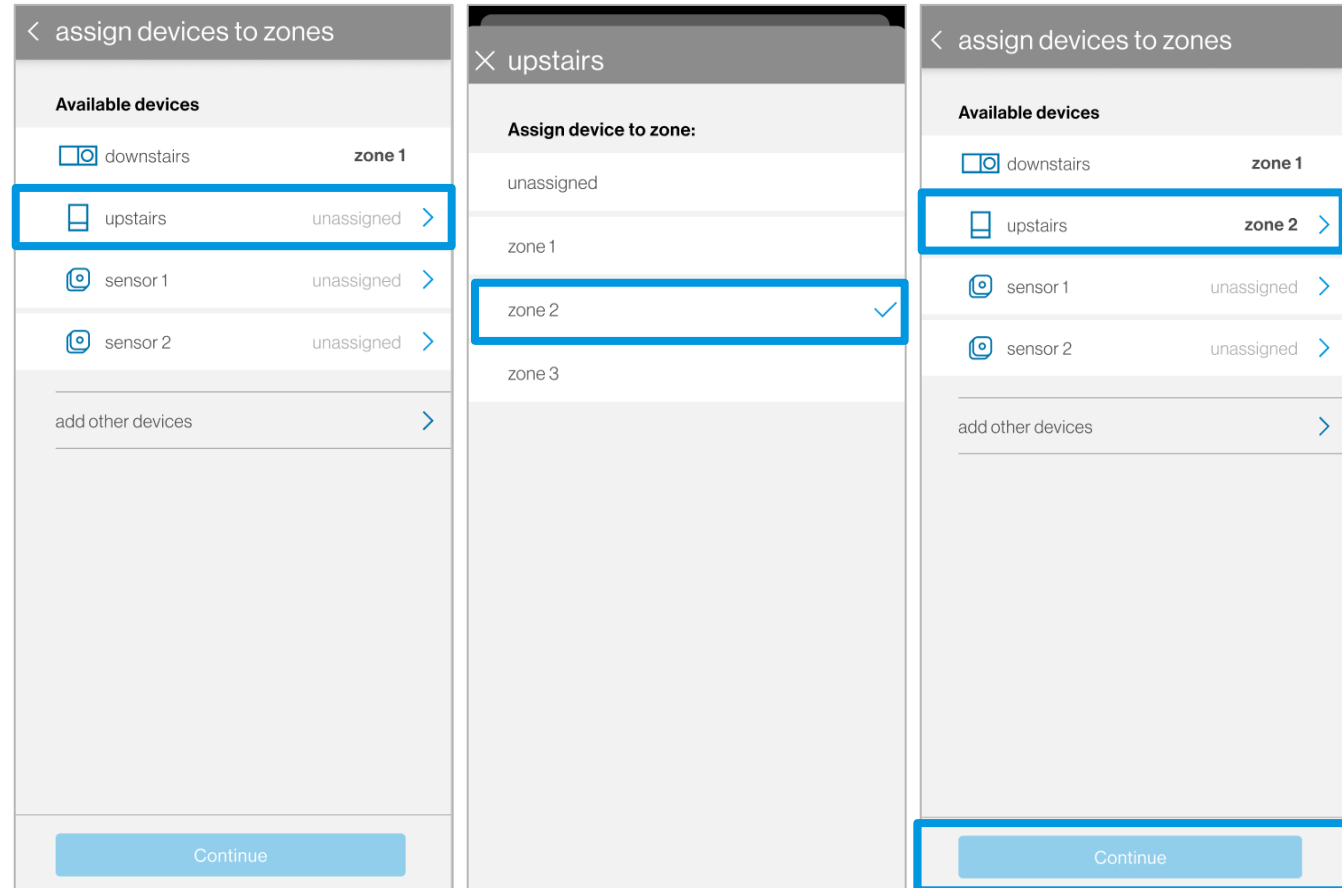
Setup “Enable Zones”

- In “enable zones” screen, zone 1 is “always on”. If any zone shows “detected”, it means the zone board detects a damper.
- Click on the detected zones to enable.
- When you hit continue you will receive a pop up that asks if you would like to run auto-weight. Select “**Run Auto-weight**”.
- This will run in the background while the zoning commissioning is being finished.



Setup “Assign Devices to Zones”

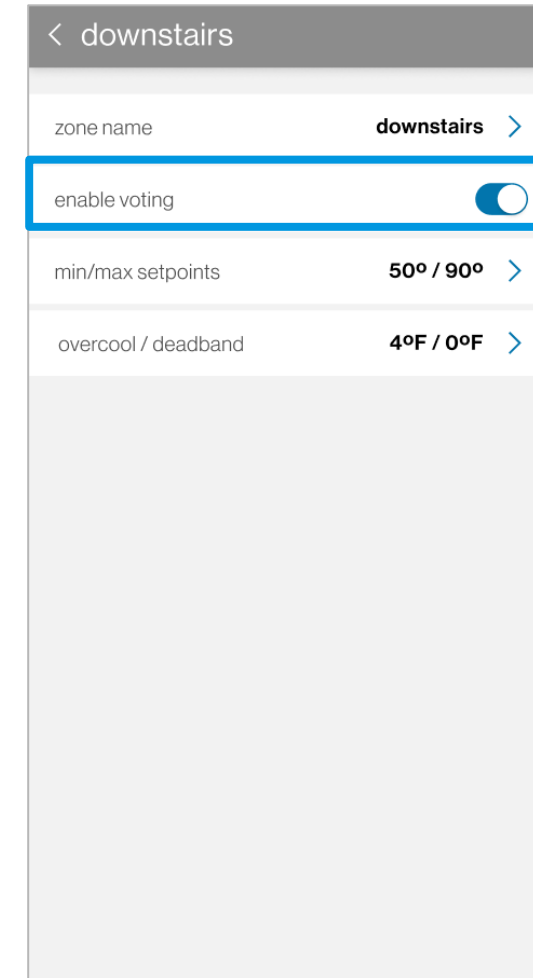
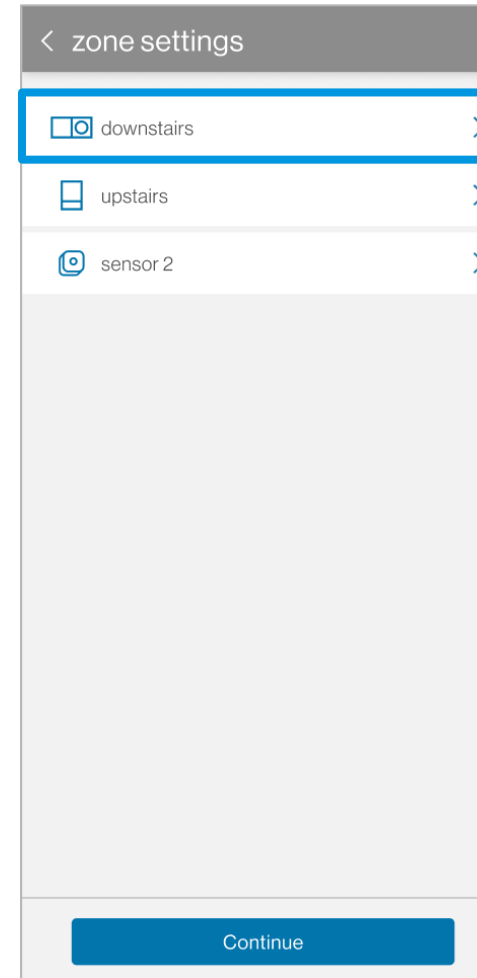
- All connected thermostats and wireless zone sensors will be populated. Thermostats name will be the name assigned in the “personalization” step.
 - If a thermostat is missing, please check wiring.
 - If need to add wireless RHT sensor, follow the instruction in the RHT sensor box.
- Primary thermostat will always be assigned to zone 1.
 - Any device not assigned to a zone will display “unassigned”.
- In “assign devices to zones” screen, click on a device, it will display all the enabled zones available. Click to assign to the correct zone.
- After all devices have been assigned press continue.





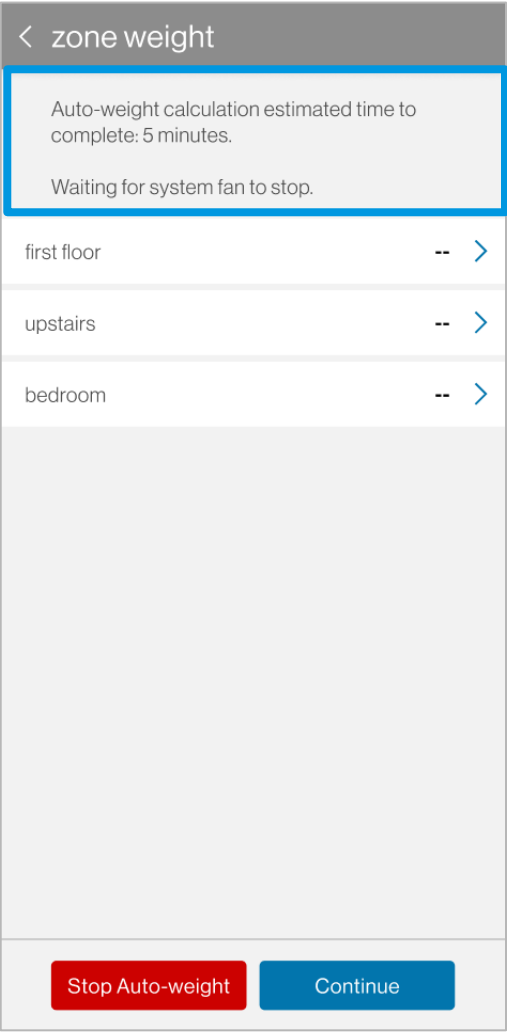
Setup “Zone Setting”

- Shows all zone thermostats and zone RHT sensors.
- Click the device to enter setup screen. In the setup screen, the zone name, enable voting, setpoint limits and overcool/deadbanded options are displayed.
 - Can select each option to adjust as needed.
- Enable voting:
 - if checked, this zone can independently call for cool/heat.
 - If unchecked, this zone cannot independently call for cool/heat. It will start heating/cooling when there is another zone calling.

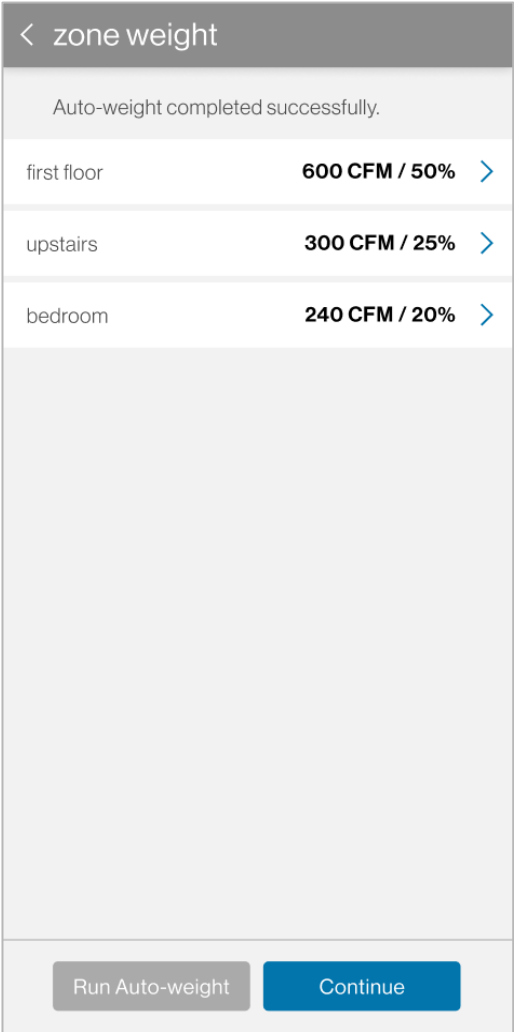


Setup “Zone Weight”

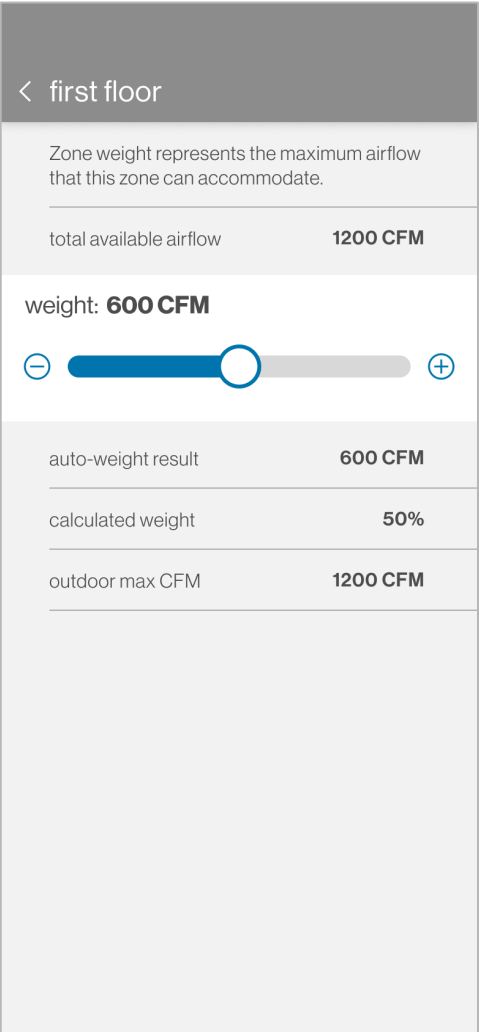
- If you get to the zone weight menu prior to auto-weight completion, you will see a message that shows the remaining time for auto-weight to complete.
- After auto-weight completes, it will show zone weight for each zone.
- You can then go in and manually adjust the zone weight if needed.



Auto-Weight Not Completed



Auto-Weight Completed



Zone Test

- Installer can use this test to verify damper operation and airflow for each zone. While running, if a zone is toggled open, it will open all dampers for this zone and run the CFM assigned in “zone weight” for this zone.
- While running, installer can go back to “zone weight” screen to fine tune the weight to achieve best performance.
- After zone weight adjustment, please allow a couple minutes for dampers and CFM to adjust.

< zone test

Use this test to verify damper operation and airflow for each zone.

When running, select a single zone or multiple zones to test at once.

first floor	open ☒
upstairs	open ☒
bedroom	open ☒

Skip Run Test

Continue

< zone test

Use this test to verify damper operation and airflow for each zone.

When running, select a single zone or multiple zones to test at once.

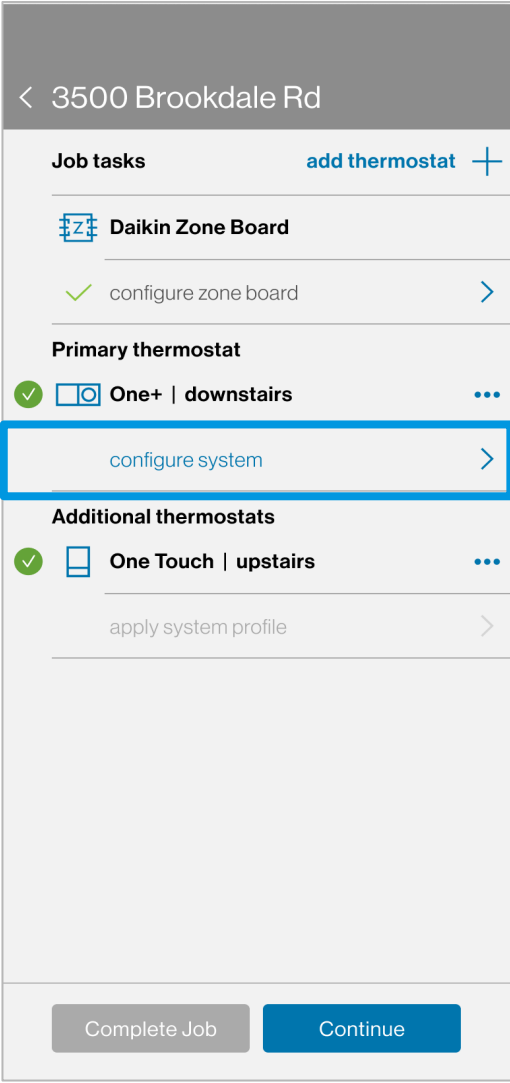
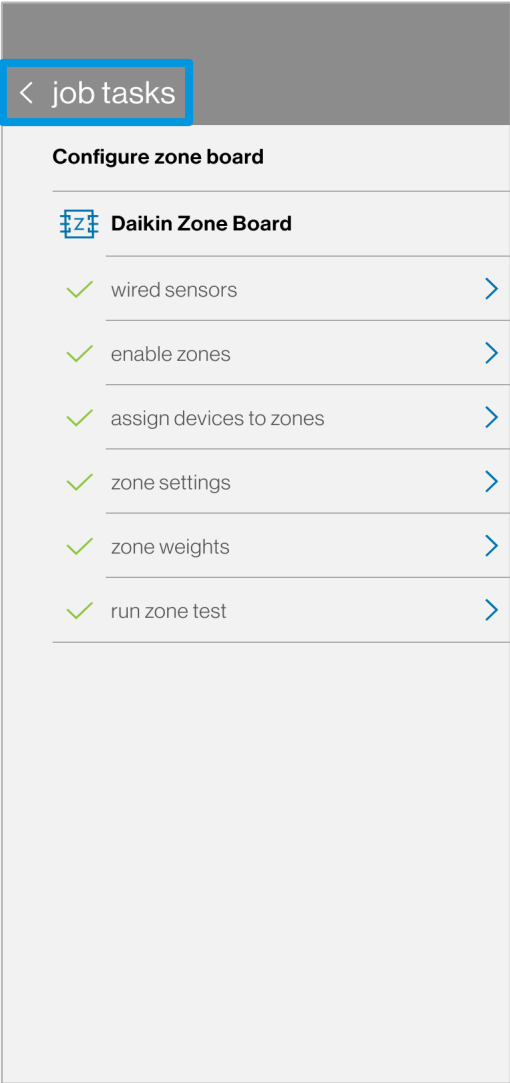
first floor	open ☒
upstairs	closed ☐
bedroom	closed ☐

Skip Stop Test

Continue

Completing *SkyportCare* Commissioning

- After zone board has been configured, continue with the rest of the commissioning process for the equipment.
 - Refer to product Installation Manual.



Agenda

Tools and Resources

Zone Control Features

Installation

Commissioning and Set-up

Dealer Navigation

SkyportCare

Troubleshooting

Troubleshooting – Thermostat Error Codes

Error Code	Dealer error message	Status	Troubleshooting Procedures
25	Zone board communication loss	Critical	Verify voltages and check all wiring connections.
31	Additional zone thermostat 1 disconnected	Minor	Verify proper setup. Verify all wire connections.
32	Additional zone thermostat 2 disconnected	Minor	Verify proper setup. Verify all wire connections.
33	Additional zone thermostat 3 disconnected	Minor	Verify proper setup. Verify all wire connections.
34	Additional zone thermostat 4 disconnected	Minor	Verify proper setup. Verify all wire connections.
35	Additional zone thermostat 5 disconnected	Minor	Verify proper setup. Verify all wire connections.
36	No primary thermostat detected	Critical	Verify proper setup of a primary thermostat. Verify all wire connections.

Troubleshooting – Zone Panel Error Codes

Error Code	Dealer error message	Status	Troubleshooting Procedures
0x81	Refrigerant alarm activated	Critical	Follow flow chart in manual.
0x82	Zone1 damper not connected	Critical	Led ON-check zone 1 damper wiring connection. Flashing-check wiring on damper or zone board connector for zone 1.
0x83	Zone2 damper not connected	Critical	Led ON-check zone 2 damper wiring connection. Flashing-check wiring on damper or zone board connector for zone 2.
0x84	Zone3 damper not connected	Critical	Led ON-check zone 3 damper wiring connection. Flashing-check wiring on damper or zone board connector for zone 3.
0x85	Zone4 damper not connected	Critical	Led ON-check zone 4 damper wiring connection. Flashing-check wiring on damper or zone board connector for zone 4.
0x86	Zone5 damper not connected	Critical	Led ON-check zone 5 damper wiring connection. Flashing-check wiring on damper or zone board connector for zone 5.
0x87	Zone6 damper not connected	Critical	Led ON-check zone 6 damper wiring connection. Flashing-check wiring on damper or zone board connector for zone 6.
0x88	Zone1 Wired Temperature sensor is short circuited	Critical	Incorrect wiring or connection. Check resistance between the wiring pins and the sensor for a short on zone 1.
0x89	Zone2 Wired Temperature sensor is short circuited	Critical	Incorrect wiring or connection. Check resistance between the wiring pins and the sensor for a short on zone 2.
0x8A	Zone3 Wired Temperature sensor is short circuited	Critical	Incorrect wiring or connection. Check resistance between the wiring pins and the sensor for a short on zone 3.
0x8B	Zone4 Wired Temperature sensor is short circuited	Critical	Incorrect wiring or connection. Check resistance between the wiring pins and the sensor for a short on zone 4.
0x8C	Zone5 Wired Temperature sensor is short circuited	Critical	Incorrect wiring or connection. Check resistance between the wiring pins and the sensor for a short on zone 5.
0x8D	Zone6 Wired Temperature sensor is short circuited	Critical	Incorrect wiring or connection. Check resistance between the wiring pins and the sensor for a short on zone 6.
0x90	Pressure sensor is open or short circuited	Minor	Check zone board settings. Check wires and connections. Check for 5v between “C” and 5V wire connections. 5V present and LED NOT ON-wiring or sensor failure. If 5V present and LED ON-check resistance between “C” and “Signal” from sensor connector on zone board. If open, check wiring or sensor failure.
0x91	Firmware upgrade Critical Data Corrupted	Minor	Firmware OTA is interrupted due to reasons such as power drop. Zone board will restart the OTA process automatically. No action needed.
0x92	Firmware Upgrade Checksum Mismatched	Minor	Wrong firmware image data received during firmware upgrade/ data corrupted. Thermostat will restart firmware upgrade cycle automatically. No action needed.
0x93	External Flash Initialization Failed	Minor	This alert does not impact zone operation. Zone board has external flash faulty. This alert means zone board did not get the latest firmware. Power cycle. If error persist, replace zone board.
0x94	External Flash Read/Write Failed	Minor	This alert does not impact zone operation. External Flash Faulty/ Hardware failure. This alert means zone board did not get the latest firmware. Power cycle. If error persist, replace zone board.
0x95	Firmware Internal flash update failed	Minor	This alert does not impact zone operation. MCU internal flash issue. This alert means zone board did not get the latest firmware. Power cycle. If error persist, replace zone board.



Assessment

TRC-15 Daikin Zoning Control



1. What is the maximum amount of zones the Daikin Zone Controller can support?

- a) 4 
- b) 6 
- c) 8 
- d) 10 

2. From the options listed, which is the first step when commissioning the Daikin Zone Controller?

- a) Setup name 
- b) Setup enabled zones 
- c) Update thermostat firmware 
- d) Setup the primary thermostat 

3. You can utilize the *SkyportCare* app to commission the Daikin Zone Controller.

- a) True 
- b) False 

4. After zone board has been configured and setup, you do not need to continue with the rest of the commissioning process for the equipment.
- a) True 
b) False 
5. Each zone can handle up to [] VA worth of zone dampers.
- a) 4 
b) 6 
c) 8 
d) 10 
6. The Daikin Zone Control Panel has 4 dry contact relays for engaging AC or DC controlled auxiliary devices.
- a) True 
b) False 

7. Which of these would be the preferred location to install the Daikin Zone Control housing?

- a) Furnace 
- b) Air Handler 
- c) Return Duct 
- d) All the above 

8. You can connect up to 8 RHT sensors to 1 Daikin One+ Thermostat.

- a) True 
- b) False 

9. What voltage is used to control the dampers?

- a) 12vdc 
- b) 12vac 
- c) 24vdc 
- d) 24vac 

10. Primary thermostat will always be assigned to zone 1.

- a) True 
- b) False 

11. Checking the “Enable Voting” will allow the system to do what?

- a) Allow each zone to run in a different mode 
- b) Allow that thermostat to independently call for cool/heat 
- c) Allows the system to run with a 4° deadband 
- d) All the above 

12. If no primary thermostat is selected, the thermostat will report what error code and give an alert.

- a) E81 
- b) E77 
- c) B11 
- d) E36 

