

DAIKIN ZONE CONTROL PANEL INSTALLATION INSTRUCTIONS DOZP-6-ADA-A

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Daikin Comfort Technologies Manufacturing, Inc.

19001 KERMIER RD., WALLER, TX 77484

WWW.DAIKINCOMFORT.COM

P/N: IOD-7195 DATE: JULY 2026



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OVERVIEW

WHAT'S IN THE BOX?

Description	Quantity
Daikin zone controller	1
Zone controller quick-start installation guide	1
Mounting Screws	4
Daikin differential pressure sensor	1
Pitot tube	2
Silicon tube	1 x 16ft
Differential pressure sensor quick-start installation guide	1

ZONE CONTROLLER

Specification	Description
Model number	DOZP-6-A
Storage temperature	-40° F to +170° F (-40° C to 76.5° C) 5% to 95% RH non-condensing
Operating temperature	-20° F to +140° F (-29° C to 60° C) 5% to 90% RH non-condensing
Input voltage	24VAC UL Listed Transformer Class 2 (Range: 18~30VAC)
Wiring	18 AWG solid copper or stranded wire. Shielded cable is unnecessary
Zone Controller Power Consumption	2.5VA@24V (damper VA not included)
Dimension	Length 11-5/8 in x Width 12-1/2 in x Height 1-5/8 in
Max zones	6
Max VA per zone	6VA
Compatible damper	24Vac Power Open/Close 35s zone dampers
Compatible thermostats	Daikin One+, Daikin One Touch, Amana Smart thermostat, * Daikin Wireless RHT sensor

UL CONTENT

Purpose of control	Operating Control
Action type	Type 1 Action
Impulse Voltage	330V
Certificate	 4Z95 E162563

*Daikin One+ compatible only



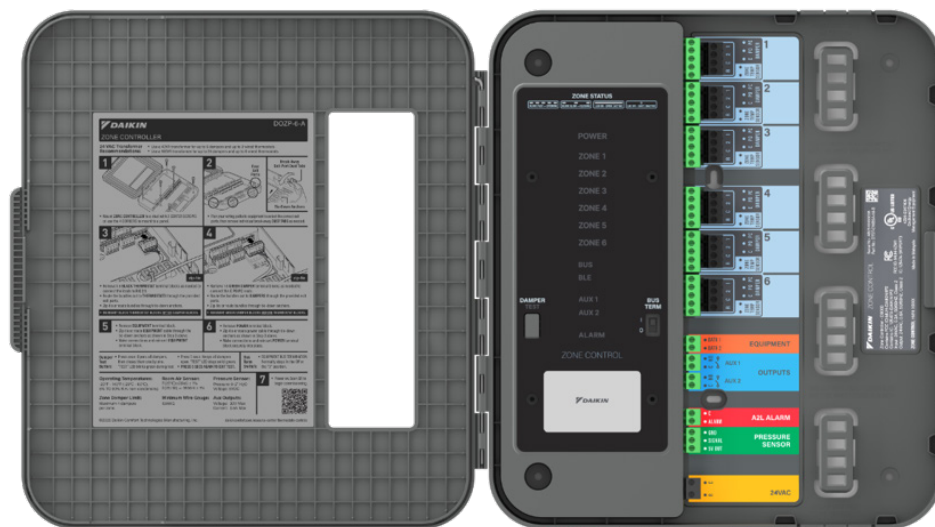


FIGURE 1

DIFFERENTIAL PRESSOR SENSOR

Specification	Description
Model number	DOZA-DPS-A
Storage temperature	-40° F to +170° F (-40° C to 76.5° C) 5% to 95% RH non-condensing
Operating temperature	-20° F to +140° F (-29° C to 60° C) 5% to 90% RH non-condensing
Input voltage	5VDC
Static pressure range	0-2" W.C



FIGURE 2

TRANSFORMER SIZING:

QUICK SELECTION TABLE

NOTE: ASSUME USING 2VA DAMPERS.

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

A field supplied, 24Vac transformer is required to power the zone controller, 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	Quantity	Total VA
Daikin One+	6		
Zone controller	2.5		
Dampers	1.5		
Total			

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

NOTE: DAIKIN TOUCH AND AMANA® BRAND SMART THERMOSTAT ARE ALSO RATED FOR 6VA EACH.

Unit	VA each	Quantity	Total VA
Daikin One+	6	2	12
Zone controller	2.5	1	2.5
Dampers	1.5	4	6
Total			20.5

A 40VA transformer is sufficient for this example.

GENERAL INFORMATION

Daikin recommends having a dedicated return for each zone for optimal performance.

Setting all zone thermostats in the same operating mode - cooling/heating may aid in comfort control and energy usage.

INSTALLATION GUIDE

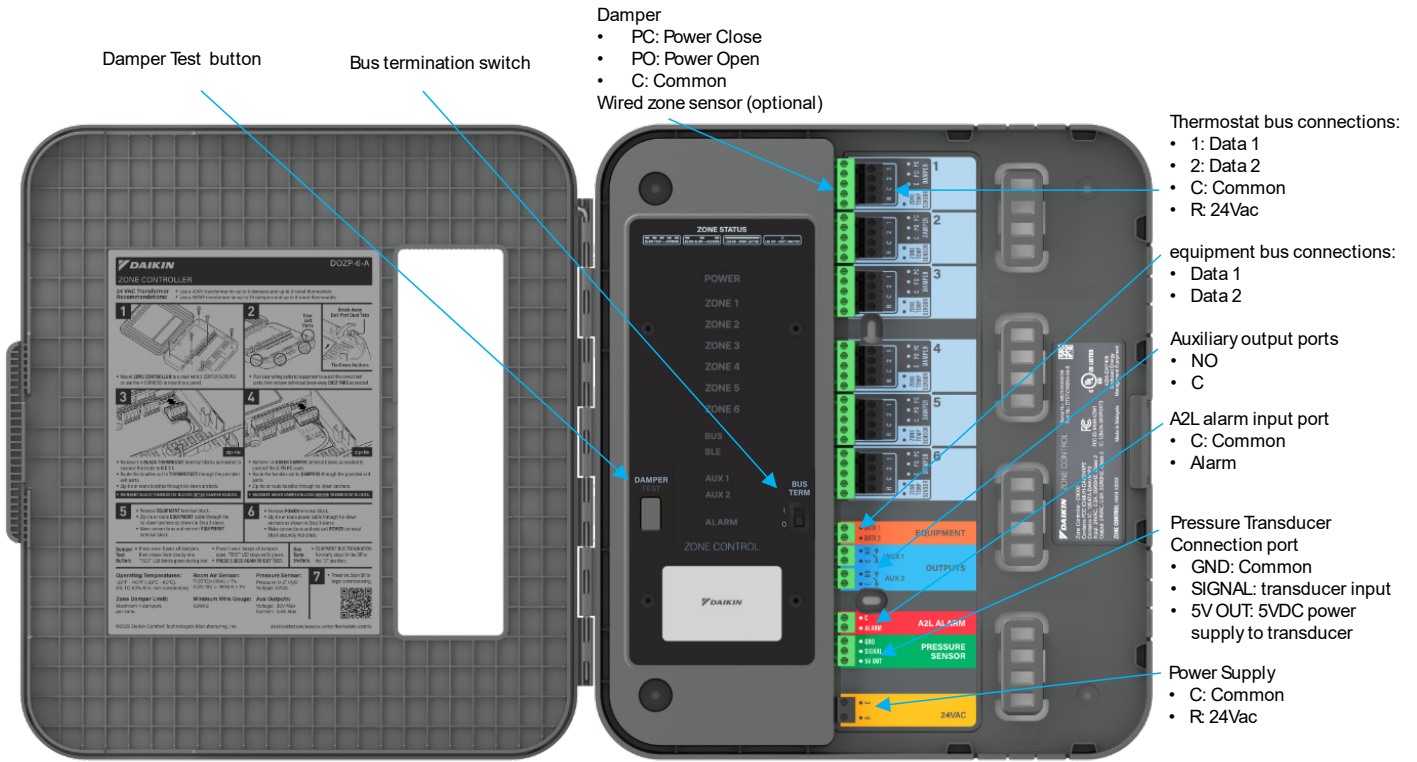


FIGURE 3

WIRING DIAGRAMS

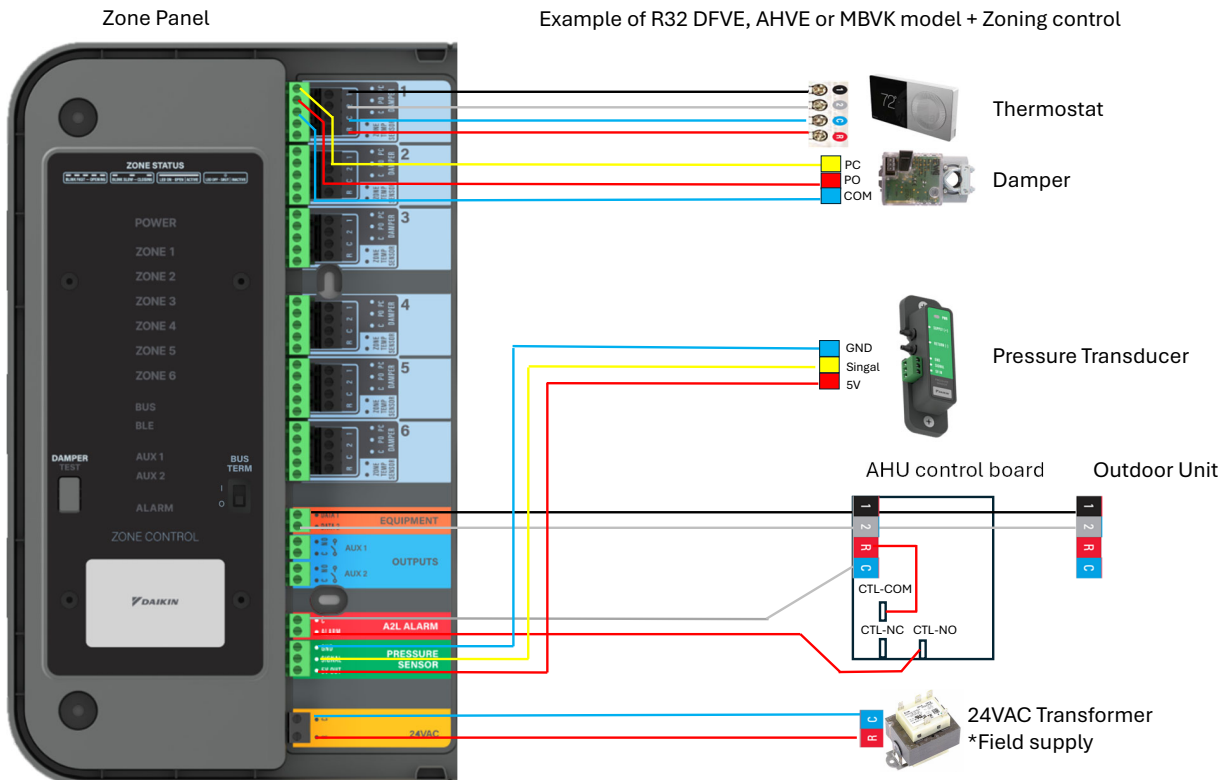


FIGURE 4

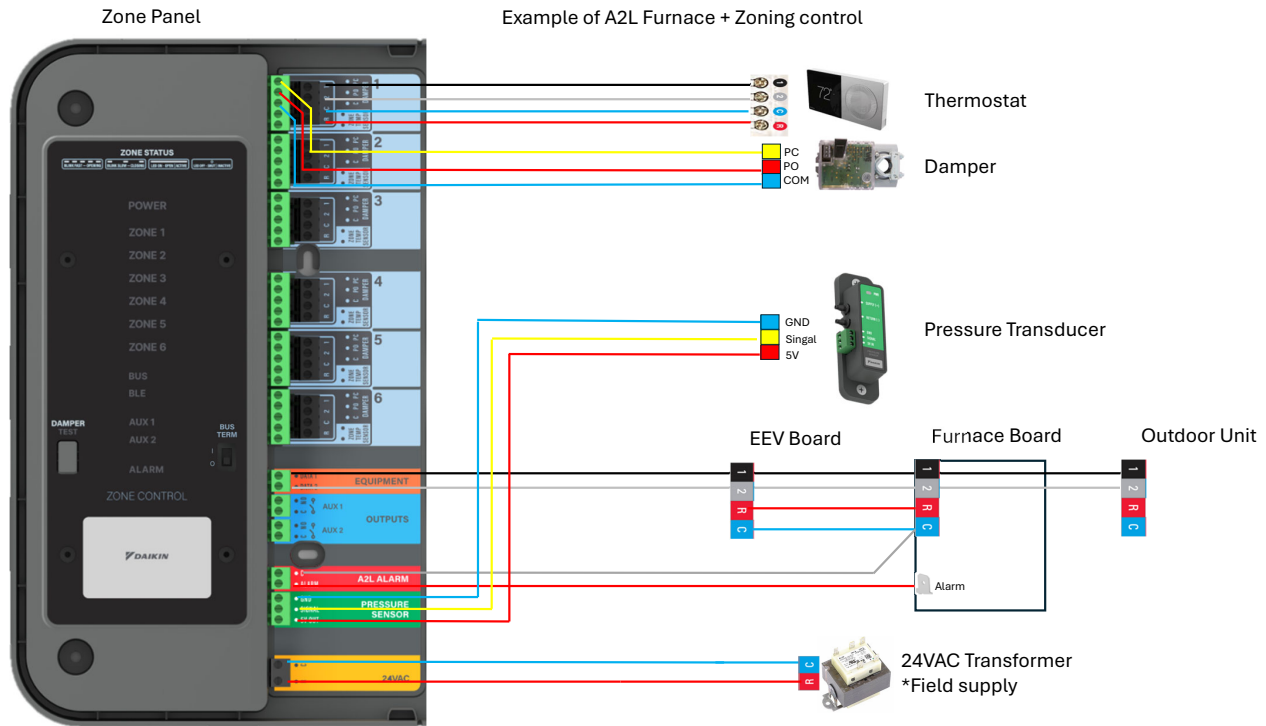


FIGURE 5

INSTALLATION

Step A: Mount Zone Controller to a stud with 2 center screws or use the 4 corners to mount to a panel

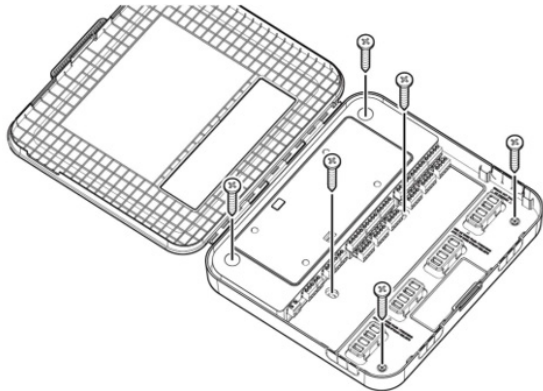


FIGURE 6

Step B: Plan your wiring paths to equipment to select the correct exit ports, then remove individual break-away DUST TABS as needed.

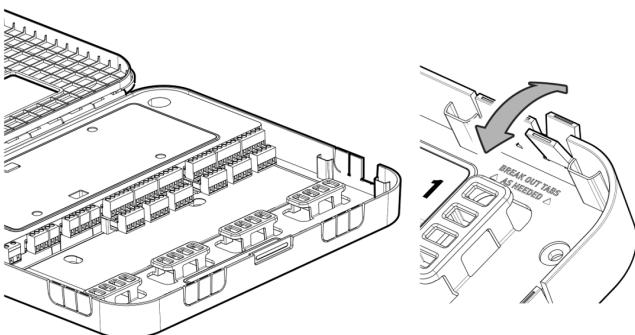


FIGURE 7

Step C:

1. Remove the BLACK THERMOSTAT terminal blocks as needed to connect the leads to R C 1 2.
2. Route the bundles out to THERMOSTATS through the provided exit ports.
3. Zip-tie or route bundles through tie-down anchors.

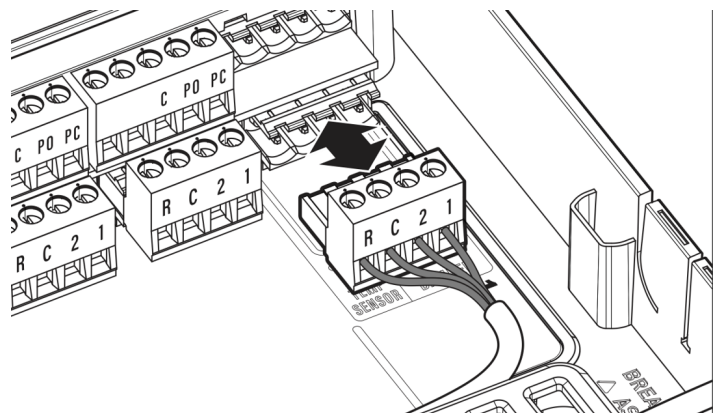
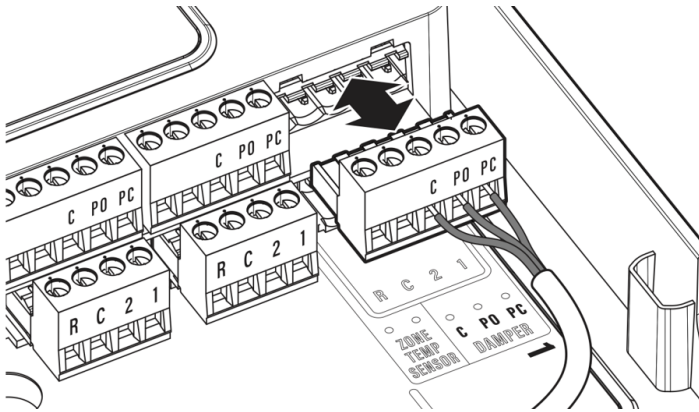


FIGURE 8

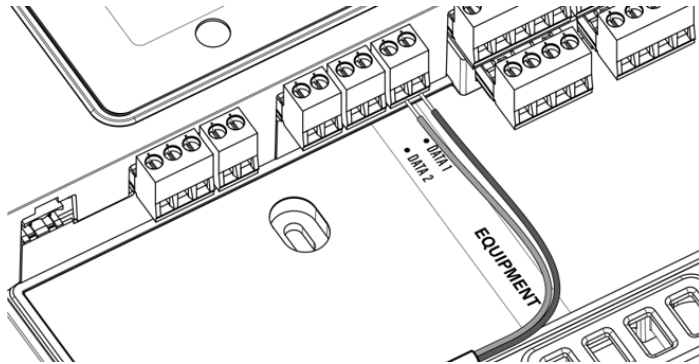
Step D:

1. Remove 1-6 GREEN DAMPER terminal blocks as needed to connect the C PO PC leads.
2. Route the bundles out to DAMPERS through the provided exit ports.
3. Zip-tie or route bundles through tie-down anchors.

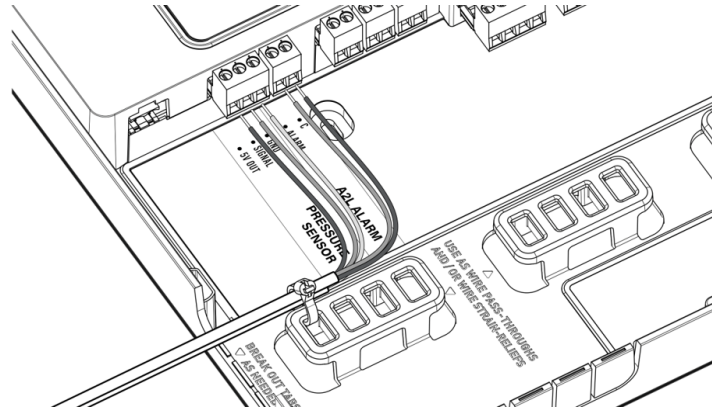


Step E:

1. Remove EQUIPMENT terminal block.
2. Zip-tie or route EQUIPMENT cable through the tie-down anchors as shown.
3. Make connections and reinsert EQUIPMENT terminal block.

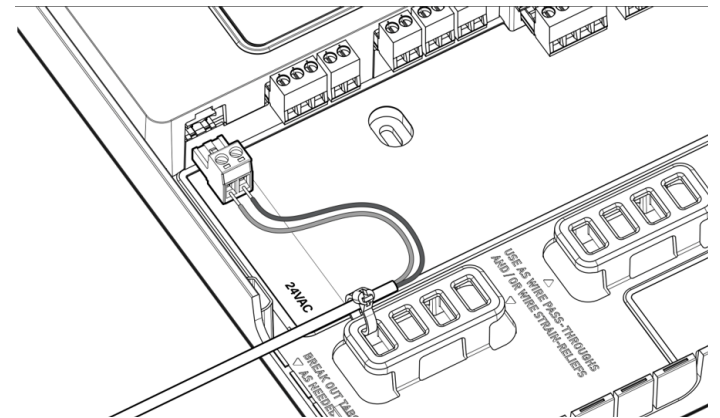


Step F: Connect the A2L refrigerant sensors, at the A2L ALARM terminal blocks, and the Differential Pressure Sensor, to PRESSURE SENSOR terminal block, then secure the cabling with zip-ties to anchor the blocks firmly in place, as shown.

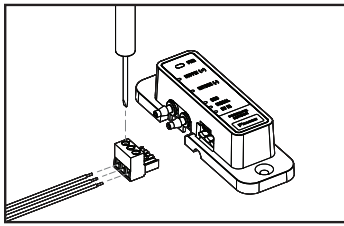


Step G:

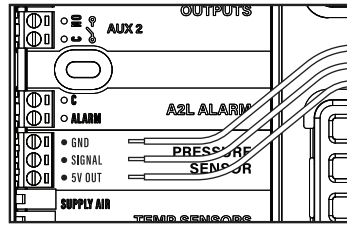
1. Transformer for the ZONE CONTROLLER is field-supplied.
2. Remove POWER terminal block.
3. Zip-tie or route POWER CABLE through the tie-down anchors as shown.
4. Make connections and reinsert POWER terminal block.



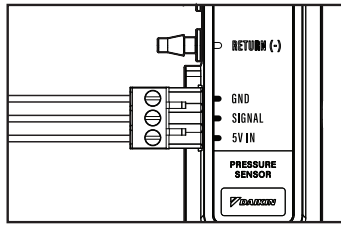
DIFFERENTIAL PRESSURE SENSOR



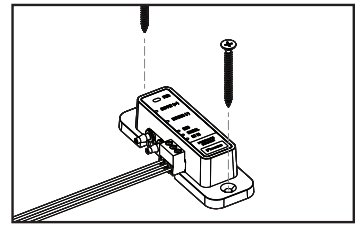
Overview
Connecting the Differential Pressure Sensor to the Zone Controller



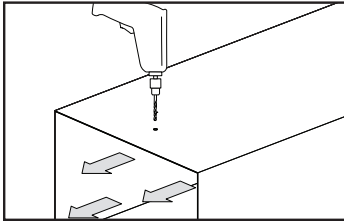
1. Wiring
GND → GND
SIGNAL → SIGNAL
5V OUT → 5V IN



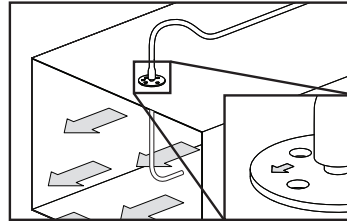
2. Wiring Complete
Plug in the terminal block to the Sensor Housing.



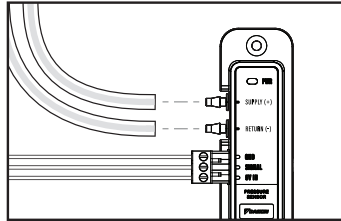
3. Mount Sensor Housing
Mount the sensor using installer-supplied screws in a convenient position between pitot tube sensor locations in step 4.



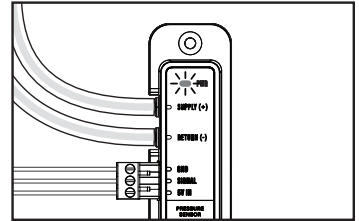
4. Pitot Tubes
Drill 5/32" holes in Supply Air and Return Air ducts. Insert pitot tubes, arrows aligned with airflow.



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.

FIGURE 9

COMPATIBLE DAMPERS

The Daikin zone controller supports any Power-Open/Power-Close damper with a 35 second travel time. Please use the table in the TRANSFORMER SIZING section to confirm the transformer VA selection. The max VA per zone is 6VA. If using 1.5VA dampers, the zone controller can support up to 4 dampers per zone. If using 2VA dampers, the zone controller can support up to 3 dampers per zone, and so on.

COMMISSIONING GUIDE

Before commissioning, finish all refrigerant system connections and electrical wiring. The zone commissioning flow is shown in the figure below

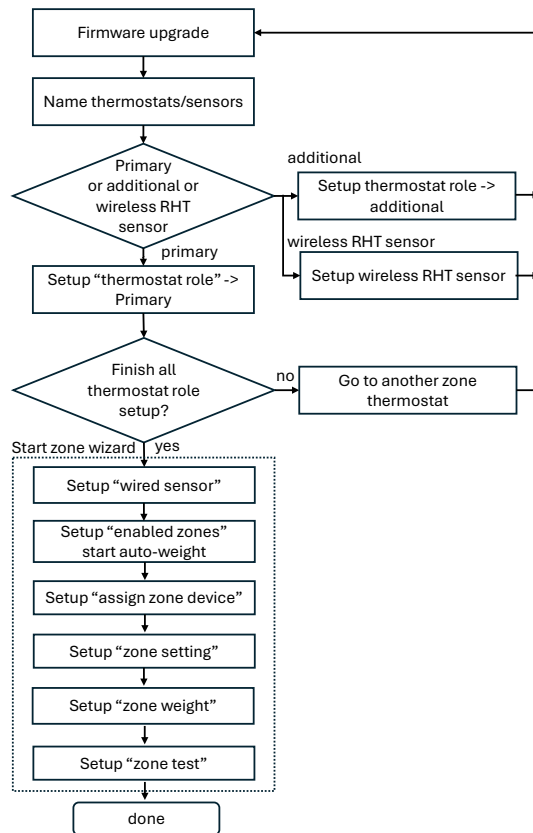


FIGURE 10

Firmware upgrade

In smart thermostat setup, choose the “communication” menu to setup the Wi-Fi connection. Once thermostats are connected to the internet they will automatically update to latest firmware. (4.0.10 or higher version) After updating, the thermostat will automatically reboot to install the downloaded firmware.

NOTE: IF MORE THAN 3 THERMOSTATS UPDATE AT THE SAME TIME THEY MAY TAKE LONGER TO COMPLETE THE UPDATE. PLEASE DO NOT PROCEED BEFORE ALL UPDATES ARE COMPLETE.



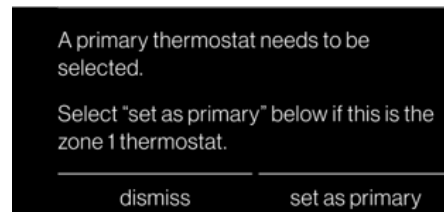
Setup thermostat name

In the smart thermostat setup screen, choose “personalization”. Update each thermostat name to correspond with its zone. Assigning a different name to each zone thermostat is highly recommended and will help identify thermostats in later steps.

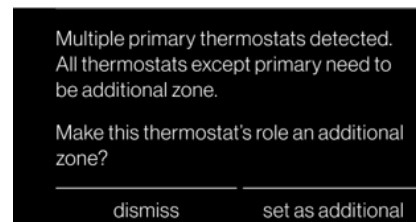


Setup “thermostat role”

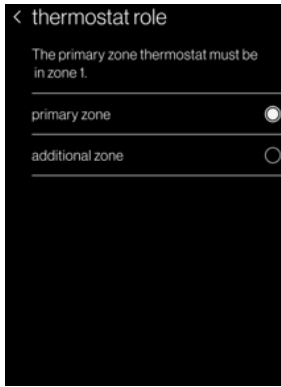
After power up, all thermostat roles will automatically be set to “additional zone”. If no primary thermostat is selected, a pop-up alert will show on every wired thermostat screen to remind you. This alert also allows identification and assignment of a specific thermostat as the primary thermostat. The indoor unit will report an E77 error code if a primary thermostat is not detected. The error will remain active until a primary thermostat is selected.



If multiple thermostats are assigned as primary, the thermostat will display a pop-up alert indicating that too many primary thermostats have been selected. To resolve the error, select “set as additional” in all thermostats that are not the primary thermostat.

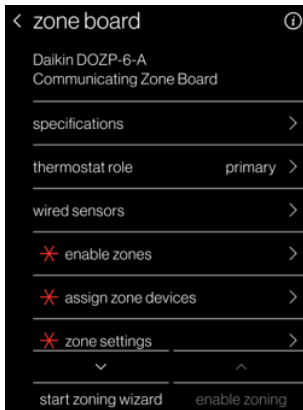


In the smart thermostat setup screen, choose “equipment setup”. Choose “zone board”. Choose “thermostat role” to set up primary and additional zone thermostats.



Start zoning wizard

On the primary thermostat, select the “zone board” menu and click “start zoning wizard” which should now appear at the bottom of the page. The zoning wizard will walk you through the commissioning process of the Daikin zone controller.

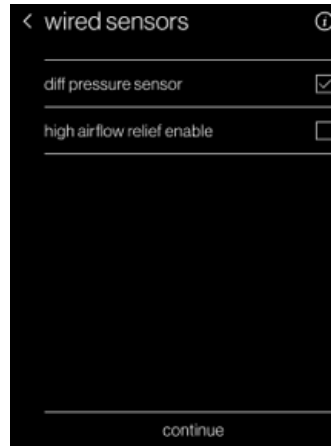


Wired sensors



Enable the differential pressure sensor and high airflow relief. The sensor is used for auto-weight and high airflow relief when the static pressure exceeds the maximum.

The pressure sensor is unchecked by default. Enable the “diff pressure sensor” by touching the empty box. This will produce a check mark in the box and enable the pressure sensor.

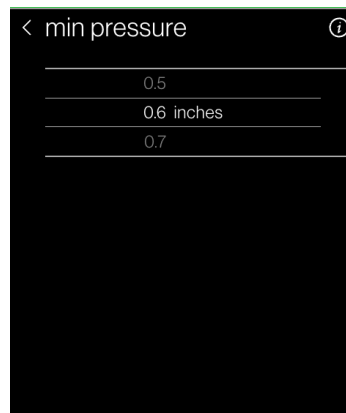


High airflow relief feature

If enabled, when the zone board static pressure is higher than the “max pressure”, the zone board will reduce the pressure by opening all dampers to 100% for 5 minutes. After 5 minutes, the zone board will check if the static pressure is lower than the “min pressure”. If lower, the zone board will resume normal operation. If still high, the zone board will keep all dampers open for another 5 minutes before checking again.

	Default	Recommend for furnace + coil	Recommend for air handler
Max pressure	0.8	0.8	0.8
Min pressure	0.6	0.6	0.6

NOTE: IF THE PRESSURE SENSOR INSTALLATION INCLUDES A MEDIA FILTER PRESSURE DROP, SUBTRACT THE MEDIA FILTER PRESSURE DROP TO THE “MAX PRESSURE” AND “MIN PRESSURE” SETTINGS. THE MEDIA FILTER PRESSURE DROP CAN BE FOUND IN THE PRODUCT SPECIFICATIONS.



After setting the minimum and maximum pressures, navigate back to the “wired sensors” screen and press “continue”.

Enable zones

During each power up, the zone board automatically checks all zones for connected dampers, and turns on the corresponding green LEDs on the zone panel.

Every 10 minutes, the zone board automatically checks all zones – the zone board will make a clicking sound for 1 second during the detection. If any zone damper is detected, the zone board turns ON the corresponding green status LED in front panel.

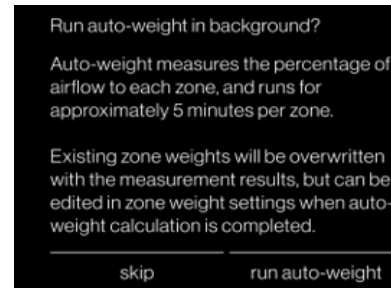
The “enable zones” menu shows “detected” next to the enable checkbox for each zone where dampers are detected. Zone 1 shows “always on” since it is always enabled. If some zone dampers are not detected, please check the installation wiring for those dampers.

By selecting “enable detected zones” all detected zones will be checked off and enabled for zone use.



When “continue” is selected on the “enable zones” screen, if a “diff pressure sensor” has not been enabled then a pop-up appears stating that a differential pressure sensor is required to run auto-weight. Selecting “yes” here will enable the sensor, but the wired sensor menu must be used to enable the high airflow relief feature that also uses this sensor.

Next, a pop-up will ask if you want to start auto-weight in the background. Select “run auto-weight” to start auto-weight.



Auto-weight will run in the background as you continue through the commissioning process.

Auto-weight measures the max CFM of each zone by running the blower motor and measuring static pressure while opening and closing each zone. The max CFM is used to calculate the zone weight of each zone, and correlates to each zone’s capacity.

After zones have been enabled and auto-weight has been started, continue to the next menu.

Assign zone devices

The “assign zone devices” menu shows all connected thermostats and wireless zone sensors that are currently connected. If you have not assigned unique names to each device, then you must assign names in the local setup menu for wired additional zone thermostats, and in the “remote sensors” menu of the primary thermostat for wireless RHT sensors.

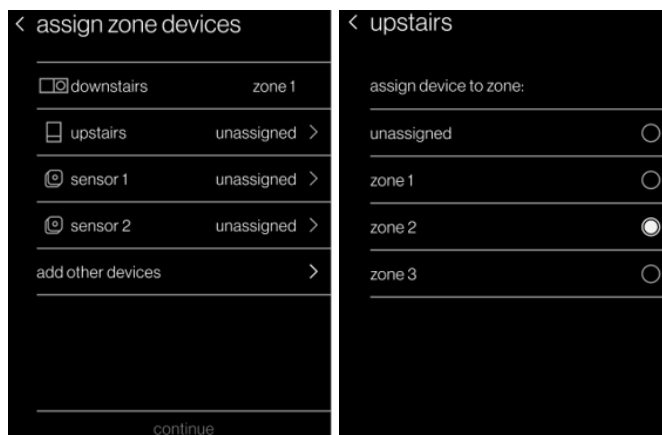
If a thermostat is missing, please check wiring connections at the thermostat and zone board.

To add wireless RHT sensors, follow the instructions included with the RHT sensors.

The primary thermostat will always be assigned to be zone 1. The “unassigned” text will be displayed next to devices that have not been assigned to a zone.

In the “assign zone devices” screen, click on each device one at a time and select the zone you want to assign each to. Zones that are not eligible for selection will show a triangle with a “!” next to it. Multiple RHT sensors can be assigned to the same zone, but RHT sensors cannot be assigned to the same zone as a wired thermostat, with the exception of the Primary thermostat in zone 1.

RHT sensors can be paired directly with Daikin *One+* thermostats in additional zones if RHT sensors in wired additional zones are desired.



Once all zone devices have been connected, tap Continue to proceed to the next menu.

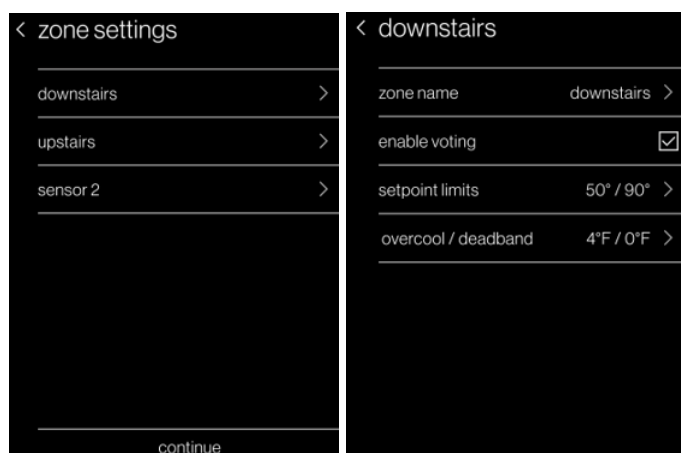
Zone settings

The “zone settings” menu shows all enabled zones with their names. Clicking on the zone name enters the setup screen, where the name, voting, setpoint limits, and overcool/deadband settings can be changed.

Enable voting:

When voting is enabled, the zone can independently call for heating or cooling. When voting is disabled, the zone can only heat or cool when a voting zone calls for matching heating or cooling.

NOTE: FOR BEST COMFORT AND NOISE, DAIKIN RECOMMENDS ENABLING VOTING FOR ZONES WITH A WEIGHT OF 20% OR HIGHER.



Setpoint limits:

The “setpoint limits” menu allows you to limit the minimum and maximum setpoints for heating and cooling for wireless zones. For wired zones, these limits need to be set in the local thermostat UI.

Overcool/Deadband:

Overcool allows the system to cool below the cooling setpoint by a selected amount to help reach the desired dehumidification setting.

Example: If Overcool is set to 3F, the system may cool the space up to 3F below the cooling setpoint in an attempt to reach the dehumidification setpoint (in RH).

Deadband defines the required separation between heating and cooling setpoints in Auto Changeover mode.

After configuring the zone settings, press Continue to proceed.

Zone weight

The “zone weight” screen displays the status of auto-weight with the estimated time to completion. Once auto-weight completes, the zone weight in CFM and in % of outdoor max CFM is displayed. If auto-weight ends with an error message, please refer to the troubleshooting section.

For a 2-zone system, auto-weight completes in 10-15 min.
For a 3-zone system, auto-weight completes in 15-20min.
For a 4-zone system, auto-weight completes in 20-25 min.
For a 5-zone system, auto-weight completes in 25-30min.
For a 6-zone system, auto-weight completes in 30-35min.



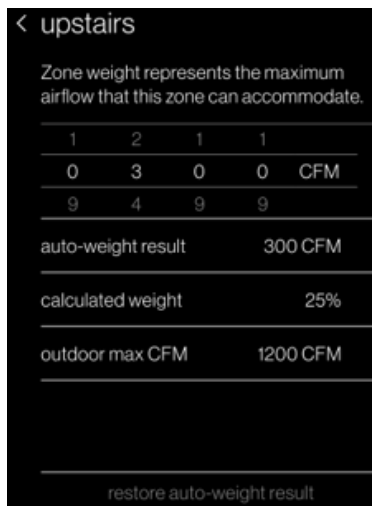
Manual adjustments:

Clicking on a zone weight leads to a menu where the weight can be manually adjusted by changing the CFM for the zone. It is recommended to adjust zone weights after running the zone test and checking the airflow delivery of each zone.

The “auto-weight result” is the airflow assigned to the current zone based on auto-weighting calculation.

The “calculated weight” is zone weight in percent calculated using the selected zone CFM divided by the “max CFM” of the system.

The “Outdoor max CFM” is the maximum indoor blower airflow allowed during heat-pump heating or cooling operation.



Zone test

In “zone test”, you can verify damper operation and airflow for each zone. While the test is running you can change the selected zones by checking or unchecking boxes, and the indoor unit will supply the CFM for that zone or combination of zones based on the weights.

While the zone test is running, you can go back to the “zone weight menu” to fine tune the zone weight to achieve best performance. After adjusting the zone weight, please allow up to 1 minute for damper to adjust.

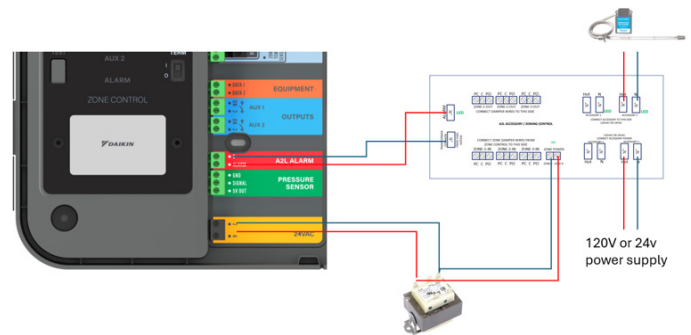
The “zone test” is manually started and stopped. However, if you fail to stop this test and leave the zoning commissioning screen, the test will stop automatically.



Daikin Zoning with accessories

UV light installation

If a UV light is installed in the system, you must connect an accessory board (0230K00007) between the UV light and indoor unit that will de-energize the UV light during an A2L alarm. If an A2L refrigerant leak alarm is received from the system board, the zone panel will open all dampers to mitigate the event.



Daikin One Home Air Monitor



The Daikin *One* Home Air Monitor is compatible with the Daikin zone controller when using a Daikin *One+* or Daikin *One* Touch thermostats. When a poor air quality notification is received, the user can start One Clean on the Primary thermostat which will open all zone dampers and run the indoor unit fan at medium speed for 3 hours. Please refer to the Daikin *One* Home Air Monitor installation instructions for more information.

Auxiliary devices supported

Daikin zone controller has two auxiliary outputs that can be used in addition to the auxiliary outputs that are on the thermostat. These outputs can be configured to control accessories such as humidifiers, dehumidifiers, and auxiliary heating devices, including radiant heating. These are dry contacts that are set up and controlled within the thermostat.

Refer to all local codes when using auxiliary devices with R32 equipment.

Auto-Weight Messages

Auto-weight Status	Possible Cause	Corrective Action
Auto-weight calculation estimated time to complete x minutes	Normal	No corrective action needed.
Pressure sensor not connected	Pressure sensor is not enabled or wired	Enable the pressure sensor using thermostat menu If pressure sensor is enabled check wiring at zone board and pressure sensor
Stay at "Waiting for system fan to stop" for longer than 5 min	Possible communication issue	Power Cycle the thermostat
Auto-weight stop due to fan fault	Blower not operational	Diagnose indoor fan motor issue
Waiting to discover equipment	Equipment information still populating	If communication loss then check wiring and bias voltage.
Auto-weight aborted	Pressure sensor issue or manually stopped	Enable pressure sensor for auto-weight
Less than 2 zones are enabled or have dampers connected	Number of zones enabled	Return to the enable zones screen and enable more zones
Auto-weight completed successfully	Normal	No corrective action needed
Total size of all zones is x CFM. Auto-weight may be inaccurate due to a large zone size	Airflow issue	Check IDU door or duct leak
Total capacity of all zones is x CFM	Normal	No corrective action needed
Auto-weight cannot be completed due to small duct size	Airflow issue	Check zone size or stuck damper

TROUBLESHOOTING

Zone thermostat related error codes

Error Code	Dealer Error Message	Alarm Status
25	Zone board communication loss	Critical
31	Additional zone thermostat 1 disconnected	Minor
32	Additional zone thermostat 2 disconnected	Minor
33	Additional zone thermostat 3 disconnected	Minor
34	Additional zone thermostat 4 disconnected	Minor
35	Additional zone thermostat 5 disconnected	Minor
36	No primary thermostat detected	Critical

Error 25 – Zone board communication loss

Check “BUS” LED on the zone panel.

Flash with a fixed frequency	zone board is not communicating with other equipment
Solid ON or OFF	zone board is not communicating with other equipment
fast and slow intermittently	Normal

- Check equipment power
- Check Data 1, Data 2 polarity, loose, short or broken wire
- Check Data 1, Data 2 DC bias voltage. 0.6Vdc-0.9Vdc

Error 31 through 35 – Additional zone thermostat “thermostat_name” disconnected.

The Primary thermostat will display these errors when one or more additional zone thermostats disappear from the ClimateTalk bus. The associated zones will be merged with the Primary zone (zone 1) until the thermostat communication issues are resolved.

- Check zone thermostat power
- Check Data 1, Data 2 polarity, loose, short or broken wire
- Check Data 1, Data 2 DC bias voltage. 0.6Vdc-0.9Vdc

Error 36 – No primary thermostat detected

This alert is displayed when no primary thermostat has been selected. If primary thermostat has already been selected, then go through the process below:

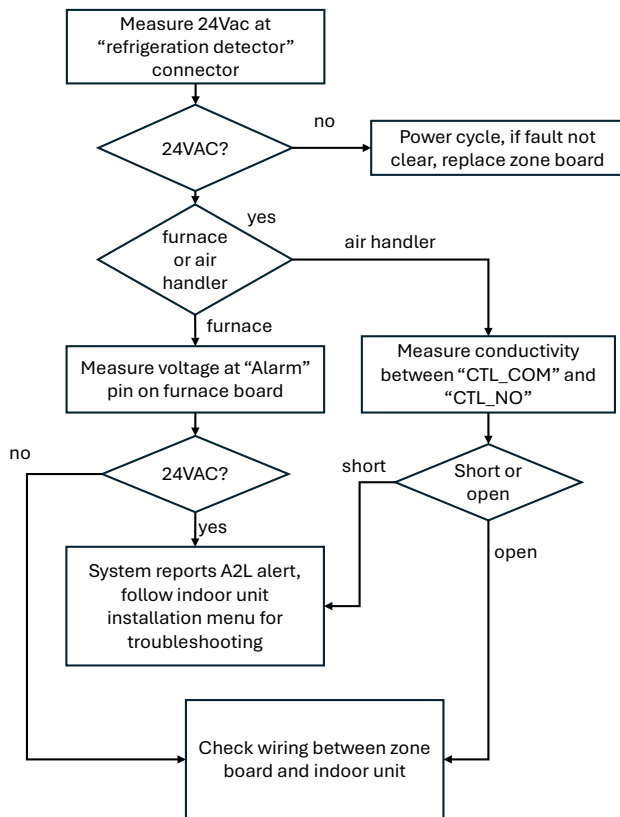
- Check thermostat power.
- Check Data 1, Data 2 polarity, loose, short or broken wire
- Check Data 1, Data 2 DC bias voltage. 0.6Vdc-0.9Vdc

Zone board related error codes

Error Code	Dealer Error Message	Status
81	Refrigerant alarm activated	Critical
82	Zone1 damper not connected	Critical
83	Zone2 damper not connected	Critical
84	Zone3 damper not connected	Critical
85	Zone4 damper not connected	Critical
86	Zone5 damper not connected	Critical
87	Zone6 damper not connected	Critical
88	Zone1 Wired Temperature sensor is short circuited	Critical
89	Zone2 Wired Temperature sensor is short circuited	Critical
8A	Zone3 Wired Temperature sensor is short circuited	Critical
8B	Zone4 Wired Temperature sensor is short circuited	Critical
8C	Zone5 Wired Temperature sensor is short circuited	Critical
8D	Zone6 Wired Temperature sensor is short circuited	Critical
90	Pressure sensor is open or short circuited	Minor
91	Firmware upgrade Critical Data Corrupted	Minor
92	Firmware Upgrade Checksum Mismatched	Minor
93	External Flash Initialization Failed	Minor
94	External Flash Read/Write Failed	Minor
95	Firmware Internal flash update failed	Minor

Error 81 – Refrigerant alarm activated

Zone board received the A2L alarm from indoor unit. Please follow the flowchart below for troubleshooting.



Error 82 – Zone1 damper not connected

Every 10 minutes, the zone controller automatically checks for dampers in all zones, making a clicking sound for 1s during damper detection. The green status LED on the zone controller turns on for each zone where dampers are detected.

- If error 82 is always on, check the zone 1 damper wiring connection.
- If error 82 appears intermittently, check for loose wiring in the zone 1 damper connection.

Error 83 – Zone 2 damper not connected

Follow similar troubleshooting steps for Error 82.

Error 84 – Zone 3 damper not connected

Follow similar troubleshooting steps for Error 82.

Error 85 – Zone 4 damper not connected

Follow similar troubleshooting steps for Error 82.

Error 86 – Zone 5 damper not connected

Follow similar troubleshooting steps for Error 82.

Error 87 – Zone 6 damper not connected.

Follow similar troubleshooting steps for Error 82.

Error 88 – Zone1 Wired Temperature sensor is short circuited

This error appears when a wired temperature sensor is enabled but not wired correctly. Please check that the wired temp sensor is installed and wired correctly. Use multimeter to check resistance between Zone 1 sensor pins, wiring and sensor for short.

Error 89 – Zone2 Wired Temperature sensor is short circuited

This error appears when a wired temperature sensor is enabled but not wired correctly. Please check that the wired temp sensor is installed and wired correctly. Use multimeter to check resistance between Zone 2 sensor pins, wiring and sensor for short.

Error 8A – Zone3 Wired Temperature sensor is short circuited

This error appears when a wired temperature sensor is enabled but not wired correctly. Please check that the wired temp sensor is installed and wired correctly. Use multimeter to check resistance between Zone 3 sensor pins, wiring and sensor for short.

Error 8B – Zone4 Wired Temperature sensor is short circuited

This error appears when a wired temperature sensor is enabled but not wired correctly. Please check that the wired temp sensor is installed and wired correctly. Use multimeter to check resistance between Zone 4 sensor pins, wiring and sensor for short.

Error 8C – Zone5 Wired Temperature sensor is short circuited

This error appears when a wired temperature sensor is enabled but not wired correctly. Please check that the wired temp sensor is installed and wired correctly. Use multimeter to check resistance between Zone 5 sensor pins, wiring and sensor for short.

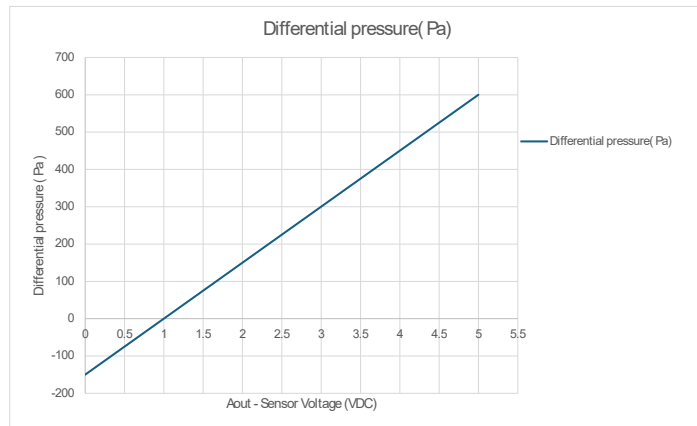
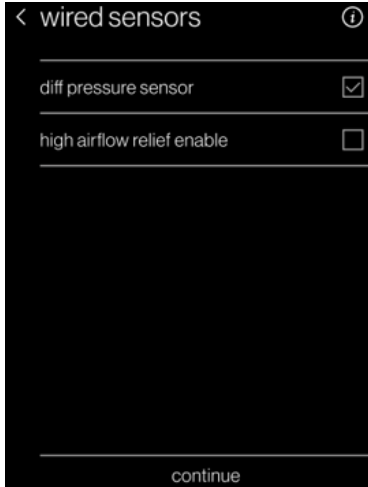
Error 8D – Zone6 Wired Temperature sensor is short circuited

This error appears when a wired temperature sensor is enabled but not wired correctly. Please check that the wired temp sensor is installed and wired correctly. Use multimeter to check resistance between Zone 6 sensor pins, wiring and sensor for short.

Error 90 – Differential Pressure sensor short or open circuit

This error appears when the differential pressure sensor input is short circuited or open/unconnected. Please check that the sensor is installed and wired correctly.

To troubleshoot the pressure sensor, use a multimeter to check the voltage between “C” and “5V out” from pressure sensor connector. If 5VDC is measured, but Daikin Differential Pressure Sensor Green Power LED is not ON, then the either 5V wiring open or sensor has failed. If 5VDC measured and sensor Power LED is ON, use a multimeter to measure the resistance across the sensor leads when disconnected, and if they show open or short than the sensor has failed.



Static pressure differential conversion:

$$\text{Static pressure differential (in. WC)} = \frac{\text{Pressure differential (Pa)}}{248.84}$$

For example, when the differential pressure is 0 Pa, or 0 in.WC, the sensor output should be 1.0 VDC between SIGNAL and GND pin.

Error 91 – Critical data corrupted during firmware upgrade.

The zone board will restart the update process automatically, so no action is required.

Error 92 – Checksum mismatch during firmware upgrade.

The zone board will restart the update process automatically, so no action is required.

Error 93 – Flash memory failed to initialize.

The zone board cannot receive firmware updates in this state, so if the problem persists after a power cycle, replace the zone board.

Error 94 – Flash memory read/write failed.

The zone board cannot receive firmware updates in this state, so if the problem persists after a power cycle, replace the zone board.

Error 95 – internal flash memory failure.

The zone board cannot receive firmware updates in this state, so if the problem persists after a power cycle, replace the zone board.

CUSTOMER FEEDBACK

Daikin is very interested in all product comments.

Please fill out the feedback form on the following link:

<https://daikincomfort.com/contact-us>

You can also scan the QR code on the right to be directed to the feedback page.



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19001 Kermier Rd., Waller, TX 77484
www.daikincomfort.com