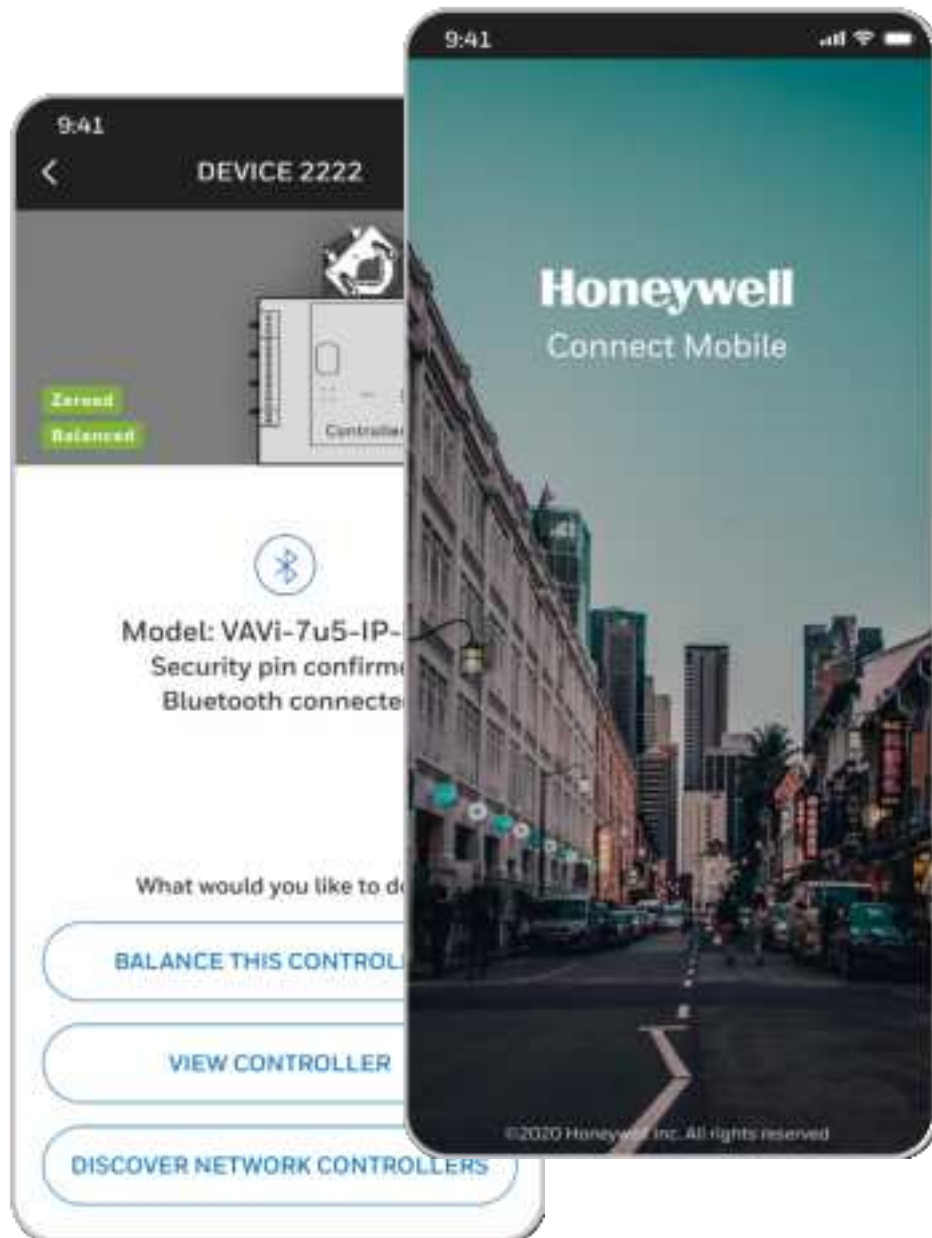


CONNECT MOBILE APP



QUICK START GUIDE

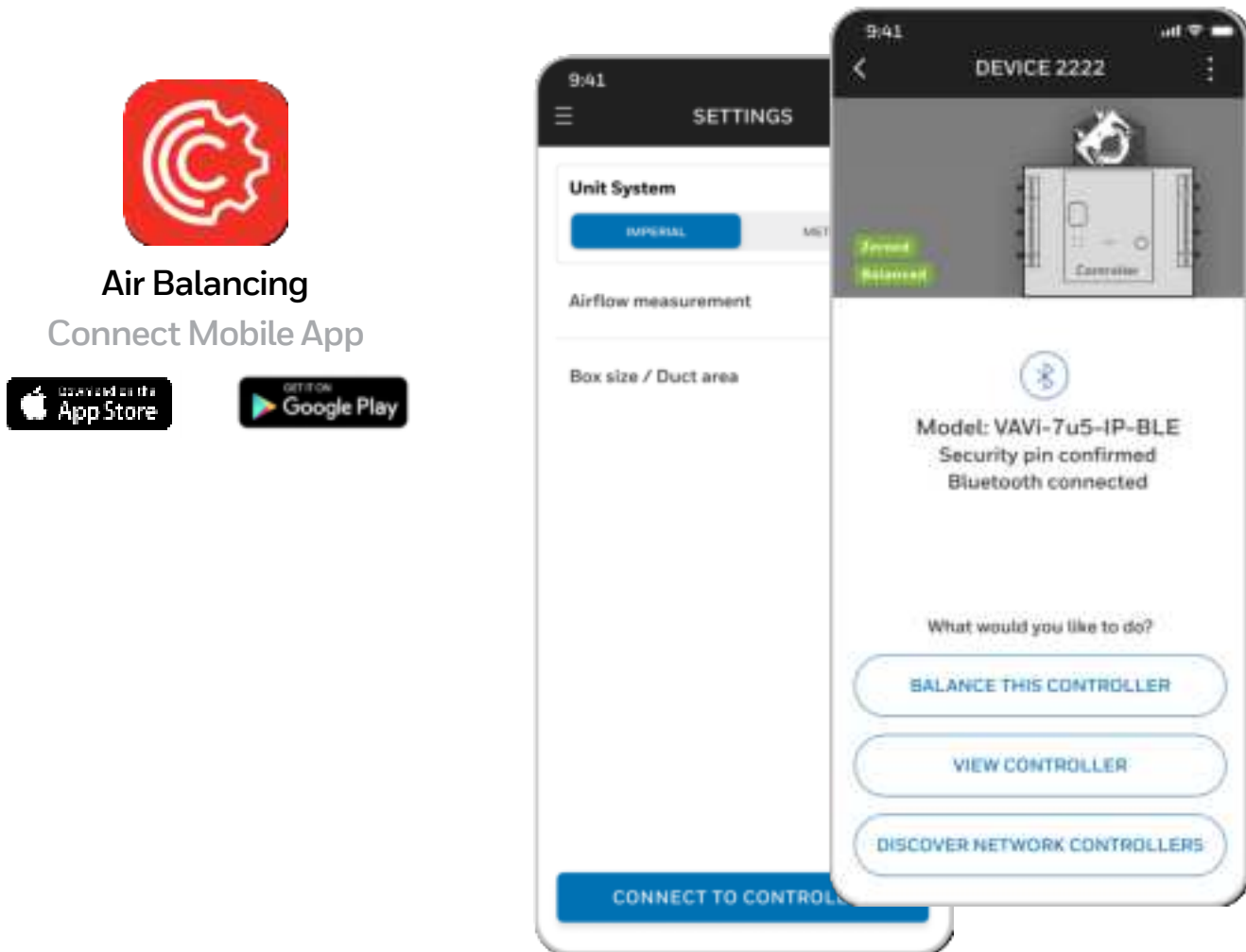
Honeywell

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Connect Mobile App

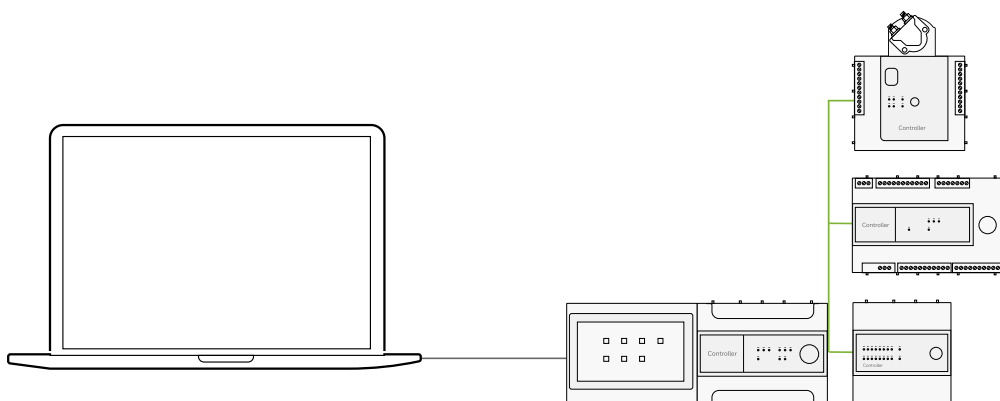
The application is designed specifically for Variable Air Volume (VAV) balancing, offering users streamlined access to the IP VAV controller through integrated Bluetooth technology. By utilizing Bluetooth Low Energy (BLE), the app enables a straightforward connection to the controller and facilitates the discovery of other controllers within the same BACnet™ network, as the Bluetooth-enabled controller serves as a router to this network.



- Users can connect to the controller via Bluetooth.
- Single and Multi Controller balancing capabilities.
- Precise calibration of zero velocity cutoff.
- Manual calibration for accurate VAV operation.
- Adjust damper settings for position and airflow.
- Resume normal operation and clear adjustments.
- Generate shareable reports for improved efficiency and documentation in VAV system management.

System Overview

1 Configure the Controller



2 Connect via BLE



3 Balance the Controller



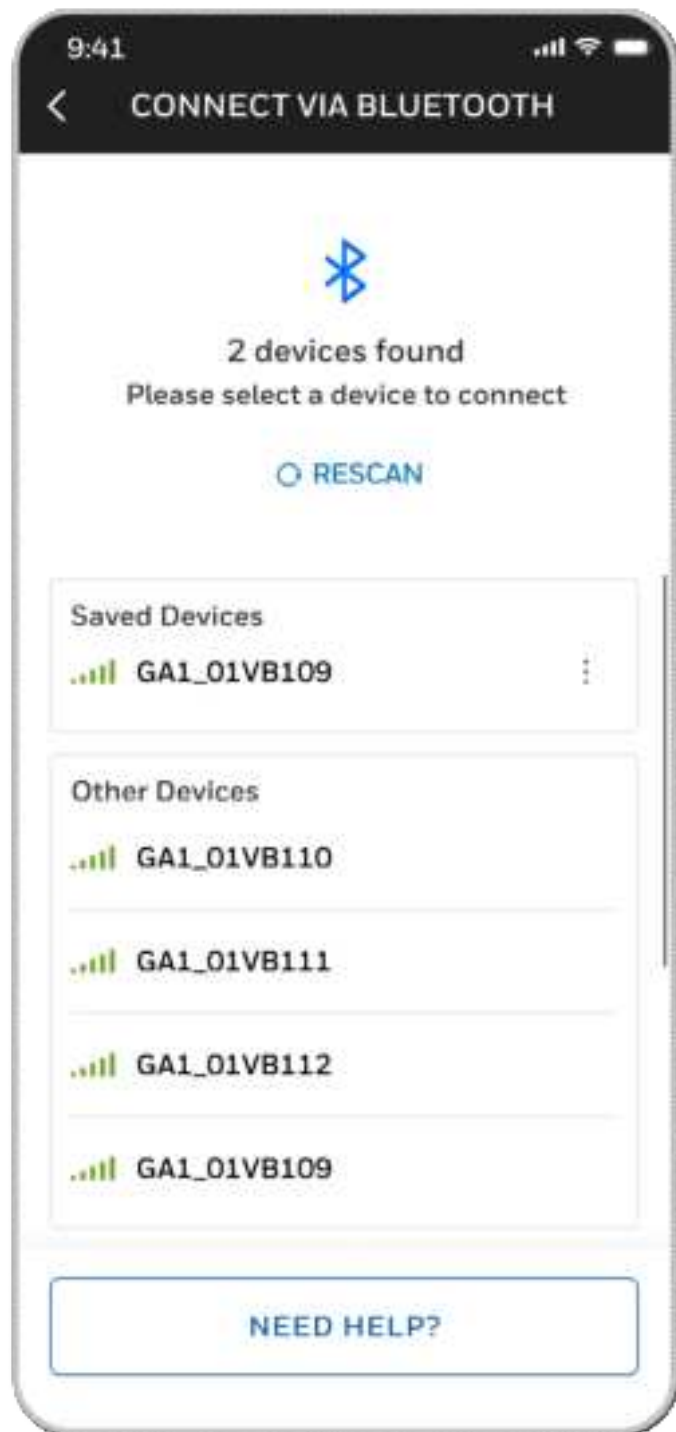
4 Generate Report



Connect To VAV Controllers

Connect the mobile device to VAV controllers to access their functions.

1. The configured device name will be displayed in the list of BLE devices.
2. The list is organized based on signal strength, with the strongest signals at the top.

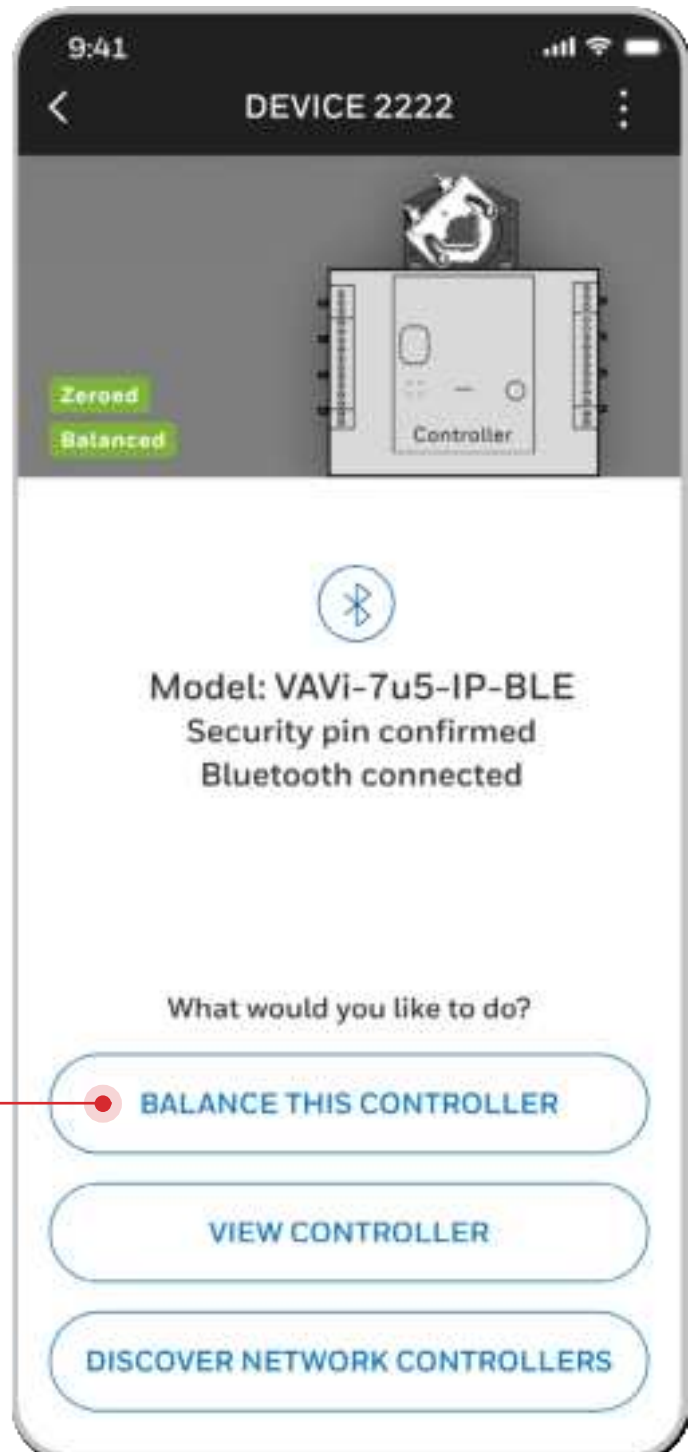


Note: Ensure the Mobile Device and the controller are within the BLE range (20-30 meters). Due to BLE advertisement character limitation, only the first 21 characters of Device name will be displayed in the list.

Single Controller Balancing

This Method refers to the process of calibrating and adjusting the airflow for one specific VAV controller. This method is typically used when a precise adjustment is needed for individual units.

- Select Controller
- Connect to Controller
- Enter Parameters
- Start Balancing
- Review Results



Select **Balance This Controller** option.

Note: If controller is already balanced, you can choose to clear before rebalancing.
Non-Alerton controllers support 2 calibration types - Flow Calibration factor (default 1) & Manufacturer K factor.

Multiple Controller Balancing

This Method allows users to adjust and calibrate several VAV controllers simultaneously. This feature is efficient for operations requiring mass updates or inspections. Maximum 5 devices are supported for multi-controller balancing.

- Select Controllers
- Input Common Parameters
- Initiate the Balancing Process
- Monitoring Progress
- Review Results for Each Controller

Filter Properties:

Unbalanced : Displays only the unbalanced controllers.

Balanced : Displays only the balanced controllers.

Zeroed : Displays only the zeroed controllers.

Not Zeroed : Displays only the controllers which are not zeroed.

Select **Multiple Controllers**

Select **Go To Tasks** and perform the operations on the selected controllers. For more details refer to [Clear Zero And Balance](#), [Resume To Normal](#).



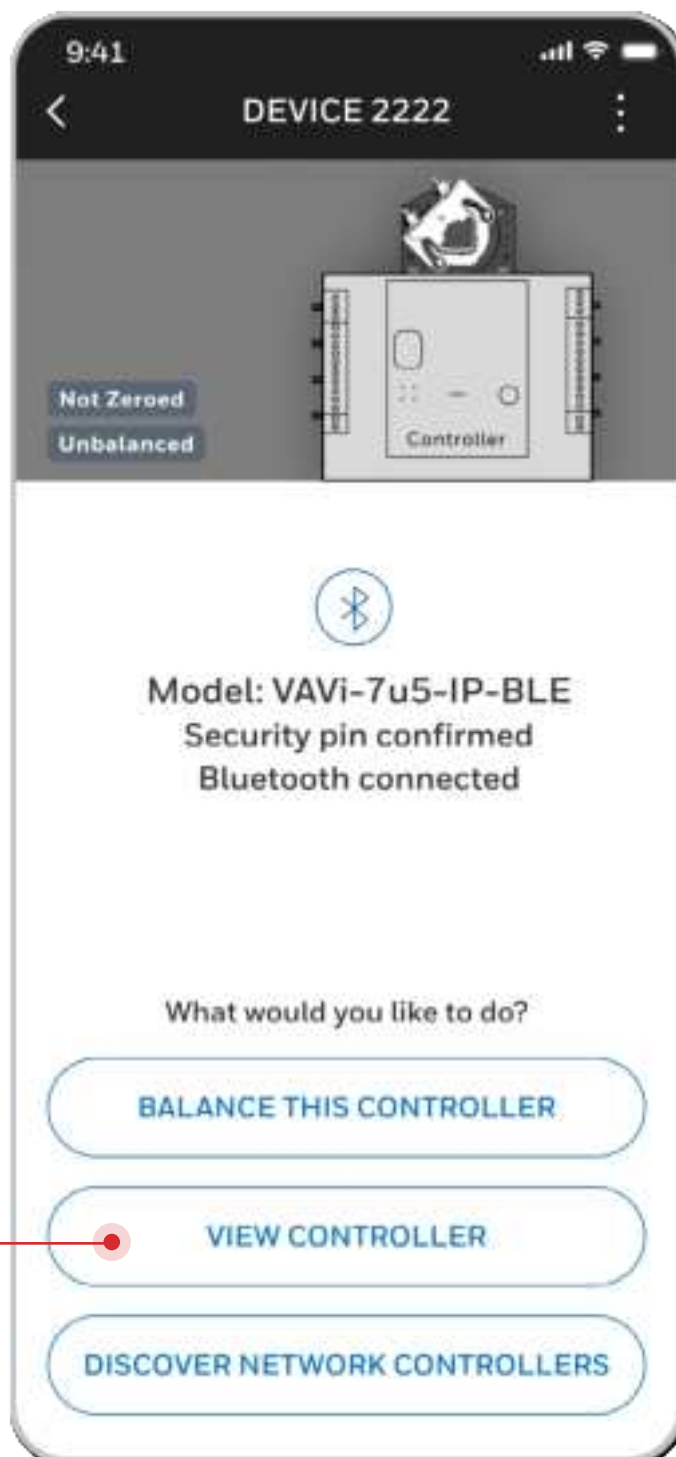
View Controller

Choose 'View Controller' option to view or update controller properties and settings.

Select **View Controller** option and view or update the controller by following operations:

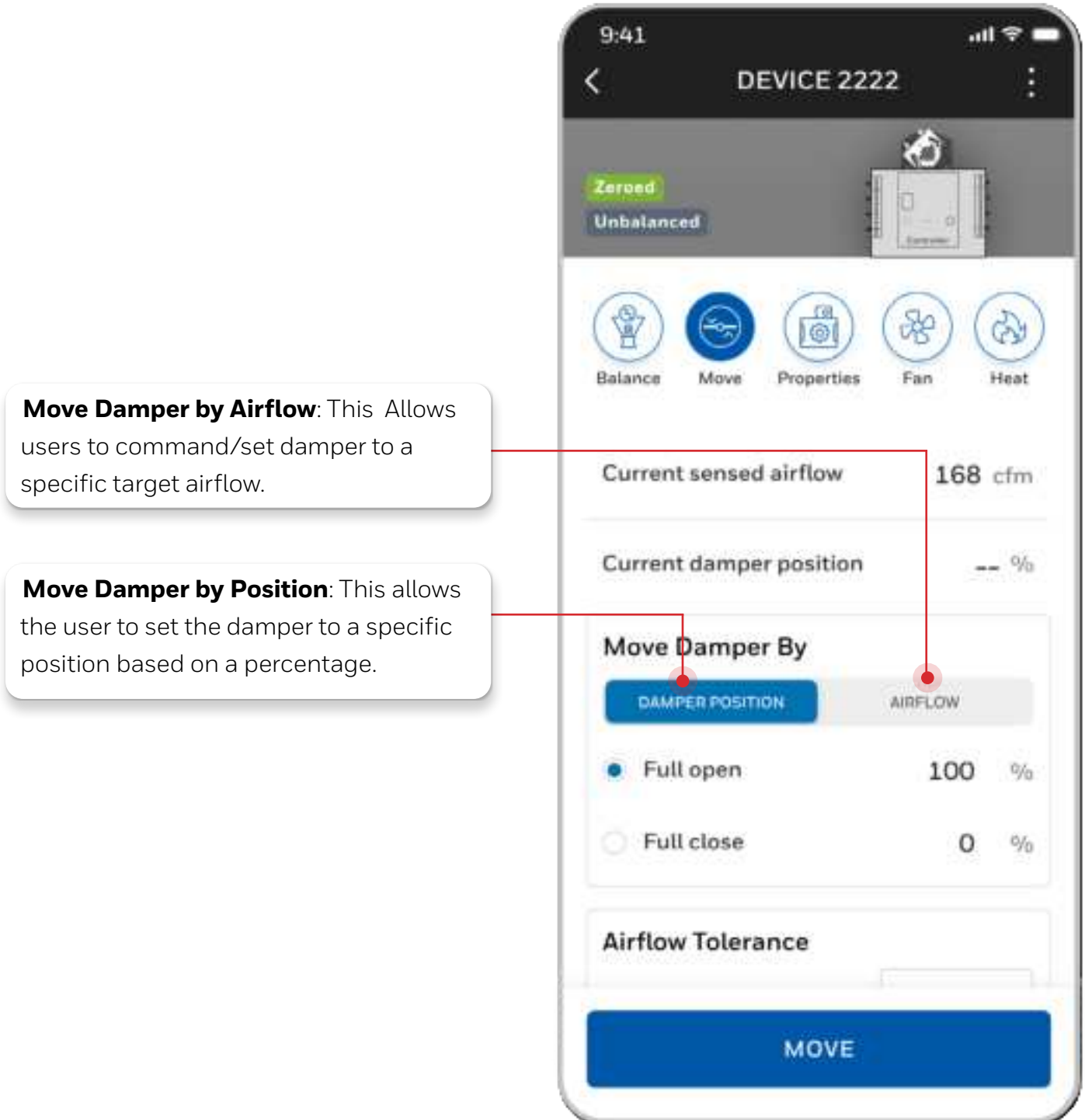


- **Balance:** Fine-tune airflow for effective system performance.
- **Move:** Manually reposition dampers for optimization.
- **Properties:** View Controller Properties.
- **Fan:** Control Fan settings during balancing.
- **Heat:** Control Heat settings during balancing.



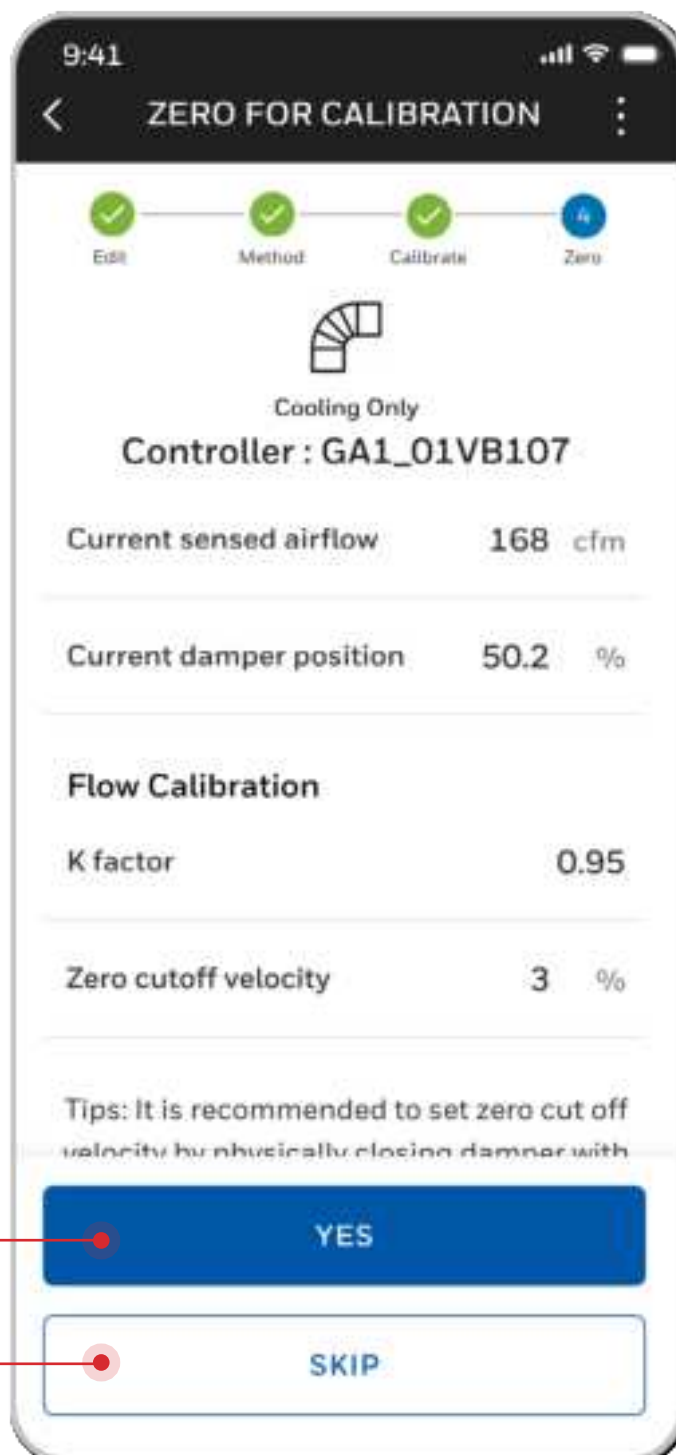
Move Damper Operation

Move Damper Operation is a feature that allows users to adjust the position of VAV (Variable Air Volume) dampers. This helps in redistributing airflow within a duct system, which is crucial for optimizing HVAC system performance and ensuring effective climate control.



Zero Calibration

Zero Calibration option is critical for maintaining the accuracy and efficiency of VAV controller operations, allowing users to manage calibrations and settings effectively.

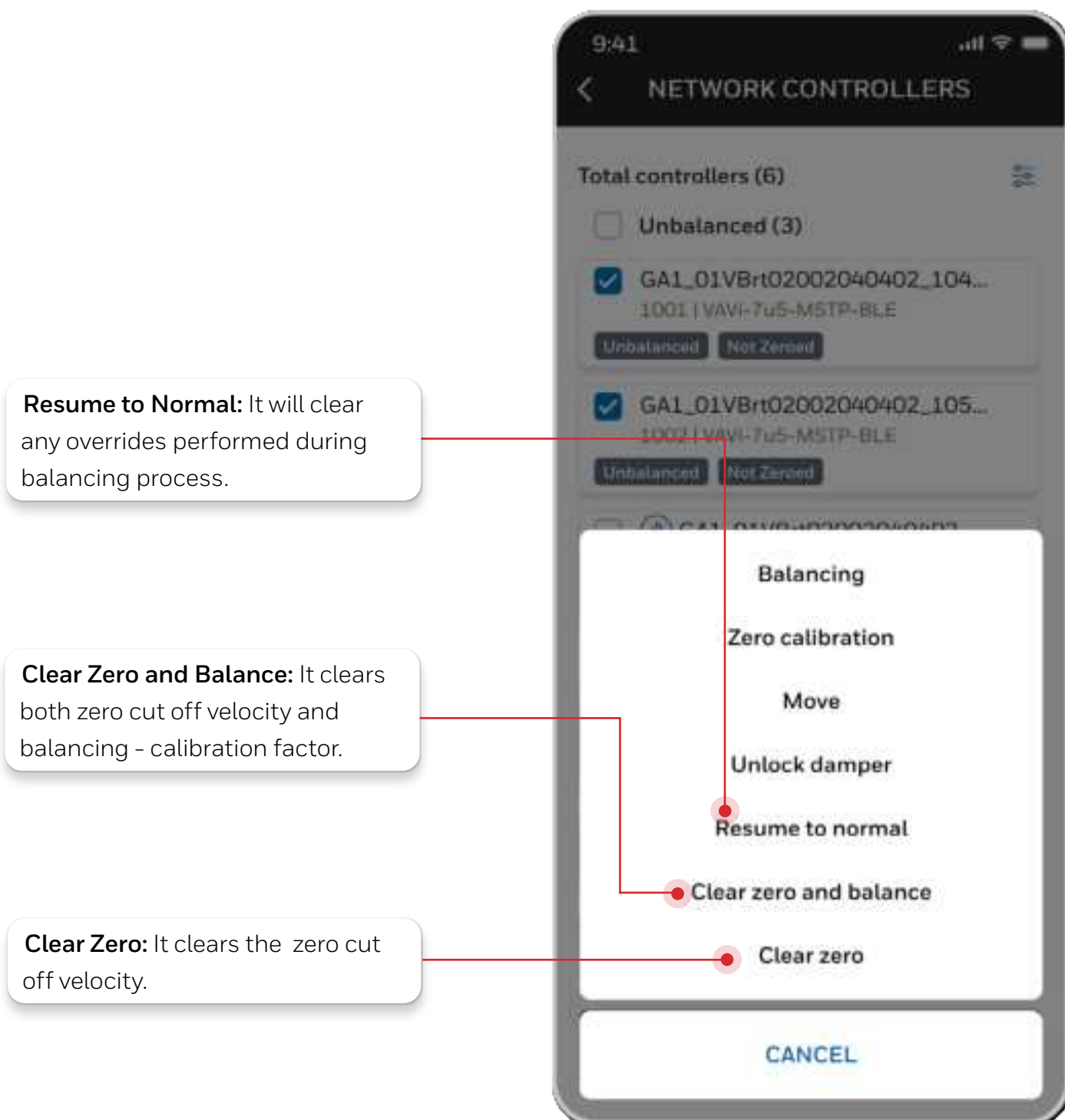


ZERO to physically close the damper and adjust the Zero velocity cut off %.

MOVE FOR BALANCING screen directly.

Clear Zero And Balance, Resume To Normal

Perform resume to normal, clear zero or balancing options for one or more controllers.



Generate Report

Generate a report by selecting the controllers you want to include. A .csv file will be generated and stored locally in your app.

Give a Name and Description to your report.

9:41

< Report Information

GENERAL

Report name
OrionL1EastWing-2021-07-21

Description
simple description of the
checkout controllers

GENERATE REPORT

Note: Controller connectivity is needed only to generate the report. However, once generated, the reports can be accessed from the Hamburger menu at any time, even without needing to connect to the controller.

The image shows three devices displaying the 'BALANCING REPORT' application. The laptop screen displays a detailed report with columns for various financial metrics and rows of data. The tablet and smartphone screens show a simplified version of the same report, adapted for their smaller formats. The application title 'BALANCING REPORT' is prominently displayed at the top of each device's screen.

Alerton Standard Applications – Point Mapping

Refer to the BACnet points used in Alerton Standard applications during the balancing process.

Point Mapping	
PROPERTY	AV/BV POINT
K -Factor	AV 252
Drive Time	AV 64
Max Setpoint	AV 67
Min Setpoint	AV 68
Airflow	AI 10
Fan Speed Command	AV 174
Fan Command	BV 193
Reheat/Fan Setpoint	AV 66
Lock Damper	BV 16
Box Size	AV 250
Heating Valve Command	AV 172
Velocity Cutoff (%)	AV 251
Damper Position	AV 9
Force To Max Setpoint	BV 11
Force To Min Setpoint	BV 9
Force Damper To Open	BV 13
Force Damper To Close	BV 12
Force To Reheat Setpoint	BV 10

Note: Please refer to the Controller IOG documentation for guidance on using custom objects for balancing.

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