VMMS

Variable Air Management System

Installation Guide





ADVANTAGE AIR[®]



Installation Guide

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1 - OVERVIEW

VAMS (Variable Air Management System) allows for zone control of up to 8 zones without a direct link to the Air Conditioning (AC) unit. VAMS uses a Return Air Sensor (RAS) and a Supply Air Sensor (SAS) that are installed into the duct either side of the AC unit.

VAMS compares the temperature readings from the RAS and SAS to determine its operation mode. The following table details the VAMS operation modes:

MODE	SENSORS	ACTION
COOLING	RETURN > SUPPLY	1) CLOSE vents for areas that are too COLD 2) OPEN vents for areas that are too HOT
HEATING	SUPPLY > RETURN	1) OPEN vents for areas that are too COLD 2) CLOSE vents for areas that are too HOT





Important:

VAMS will only operate based on the sensor feedback. It does not integrate with the AC unit and therefore does not know the actual operation mode.

VAMS will require the AC unit manufacturers controller to control the unit.



2 - INSTALLATION PROCEDURE



6. Setup the TSP, as shown in the next section.



3 - TOUCH SCREEN SETUP

To setup the touch screen once it has powered up, first open the VAMS app by pressing the VAMS icon on the home screen. The app will open into the following screen.



Follow these steps to complete the setup:

- 1. Press the SETTINGS button
- 2. Press the TECH SETUP button.
- 3. Enter password 22369 to access the setup.
- 4. Press Run Wizard, and follow the prompts on the screen.

Note: Zones 1 & 2 are used for the RAS and SAS sensors. This means the 8 configurable zones are zones numbered 3-10. By default Zones 3 & 4 are set as constant zones, this can be changed during the setup if required.

- 5. When you have completed the setup wizard press ADVANCED to see the additional options below.
 - SET ACTIVATION CODE

By setting a 4-digit activation (lock-out) code the air con system will stop working after 21 days, it is STRONGLY recommended that your company always uses the same 4-digit pin code, and that everyone in your company knows this number. If the pin code to a system is forgotten, the control box requires replacing to activate the system.

BALANCE ZONES

This is where you can balance your zones if needed. For example: if zone 6 has too much air flow we could set MAX 80% this would result in the motor never driving past the 80% open position, the customer will not see these changes on the zone screen.



4 - TROUBLE SHOOTING

If there are any active faults with the VAMS install the Fault Code will be displayed on the TSP. Use the following table to trouble shoot the issue.

AA CODE	DESCRIPTION	ACTION
AA3	CB cannot detect Daughter Board.	Check the set of 10 dipswitches within the CB6 VAMS are set to 1=ON 2-10=OFF. Any other configuration can make the CB think it needs to control an AC unit (this is not possible with VAMS).
AA60	VAMS is not setup properly, run the wizard in Tech setup.	This error will show until the wizard has been run. See section 3 for details on Tech the setup wizard.
AA61	N/A	_
AA62	VAMS-RAS needs to be plugged into CB RAS port.	Ensure there is a blue cable connected from the RAS sensor to the RAS port on the CB.
AA63	VAMS-SAS needs to be plugged into CB SAS port.	Ensure there is a blue cable connected from the SAS sensor to the SAS port on the CB.
AA64	A temperature sensor is set to Zone 1, please remove it.	RF wall sensors (WSRF) cannot use Zones 1 or 2, these are used for the RAS & SAS the first usable Zone is no.3
AA65	A temperature sensor is set to Zone 2, please remove it.	RF wall sensors (WSRF) cannot use Zones 1 or 2, these are used for the RAS & SAS the first usable Zone is no.3



The advantage of Australian-made

VAMS is designed by Advantage Air, an Australian company based in Perth, Western Australia. Since 1990, we've been dedicated to making peoples' lives more comfortable.

We take pride in creating and exporting a local product that is world class. To achieve this, we embrace technology and invest heavily in research and development. Our ingenious engineers have developed numerous industry firsts and earned us a slew of patents, registered designs and design awards in the process.

5-Year Warranty

Advantage Air components are well known in the industry for their quality and durability. To prove our confidence, we provide a 5-year warranty on all electronic controls.

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