



Control without compromise

## Installation and User Manual

**Available in two colours**

**White**



**QZW-100**

**Black**



**QZB-100**

Please read this manual carefully and keep it for future reference.  
For more details, contact ActronAir on 1800 119 229.

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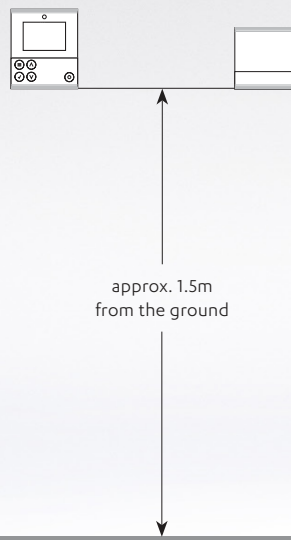
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## Zone Control / Remote Sensor Installation

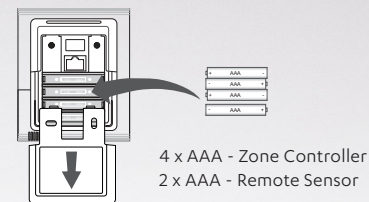
### Location

- ENSURE that the zone device (zone controller or remote sensor) distance from wall controller (master or secondary) is within the recommended RF range of 30m.
- Do not install the zone devices on external walls, directly below the supply air grille or near other additional heat load sources, as these locations may alter sensor readings.
- Do not install zone devices near magnetic, metallic objects or install near power cables as these may effect the RF performance.
- Avoid looping a longer cable as this may emit an electric noise.
- Ensure there is ample space (25cm) around the zone device to ensure proper air temperature reading and adequate access for removal.
- It is recommended to use the included wall mates to hold mounting screws.
- In the event a defective device is replaced, remember to pair the new one to the master wall controller.
- Use a maximum of 20m Cat5E cable.
- Plug the power cable into its designated zone damper terminal or zone module terminal (using 3-way cable joiner).
- DO NOT use battery and zone power cable at the same time.
- Make sure that the zone devices are installed in an upright position.



### Power Supply Options (applicable for both zone controller and remote sensor)

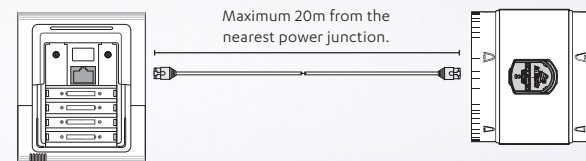
#### a AAA Battery Supply



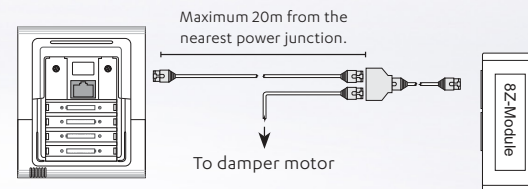
**NOTE:**  
Do not use a battery and 12VDC power supply at the same time. This type of set up could damage the controller. Prolonged usage of battery may result in leakage and will eventually damage the PCB.

#### b 12VDC using Cat5E cable (Green Cat5E spec cables with RJ45 connectors & cable boots)

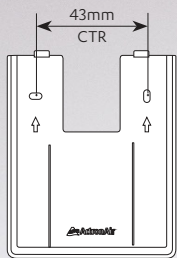
##### i) via damper motor option



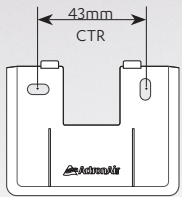
##### ii) or via 8Z-Module



## Wall Mount Dimensions



Zone Controller Mount  
H x W = 81.1mm x 65.3mm



Remote Sensor Mount  
H x W = 51.3mm x 63.3mm

## Zone Device Combination Options

**Option 1**  
Zone controller  
only



**Option 2**  
Remote sensor  
only



**Option 3**  
Zone controller  
+ remote sensor  
(averaging)



**Option 4**  
2 remote sensor  
(averaging)



**Option 5**  
Master controller  
+ remote sensor



**NOTE:** Following options are not allowed: (1) Master Controller + Zone Controller or (2) Two zone controller

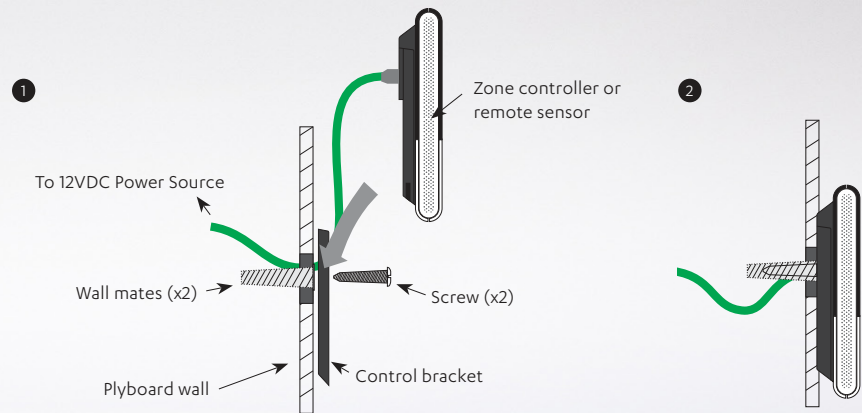
## Wall Installation

Run a green Cat5E cable through a 25mm diameter hole in the wall.  
Plug in RJ45 connector and secure the controller in the control bracket.

### Available ActronAir Cat5E green cable:

P.N. 4070-027 7 metres

P.N. 4070-031 20 metres

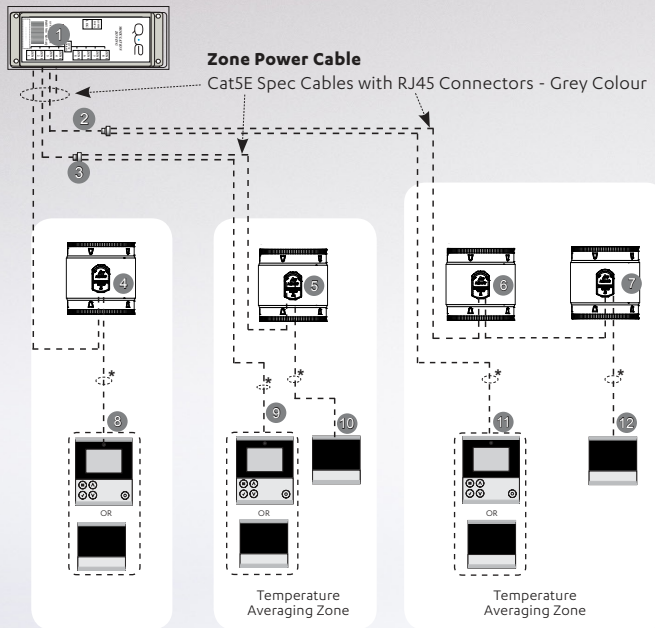


### NOTE:

Use provided wall plugs (x2) in lieu of wall mates if applicable. Use the provided screws. Wall mates or wall plugs must be totally flush to the wall. Hole for cable MUST not be MORE THAN 25mm diameter.

## Cable Installation

### 8 Zone Module



### All Zone Device Power Cable

Cat5E Spec Cables with RJ45 Connectors & Cable Boots - Green Colour.

## Maximum Cable Length

ITEM (see figure on previous page)	DESCRIPTION	MAXIMUM CABLE LENGTH
1 to 2 and 1 to 3	8-zone module to 3-way cable joiner (P.N. 4070-012)	0.175m
1 to 9	8-zone module to zone controller	100m
4 to 8, 5 to 10, 7 to 12	Zone barrel motor to zone device	20m
3 to 9 and 2 to 11	3-way cable joiner to zone device	20m

Total cable length per individual zone (from 8-zone module) **MUST NOT EXCEED 100 METRES.**

Total length of all zoning cables (from 8-zone module) **MUST NOT EXCEED 250 METRES.**

## Pairing a Zone Controller

1 On master controller, go to 'MENU' > Settings > System Settings > Zone Settings, then select which zone to set up.



2 Assign a name to the zone, then touch 'Add a zone device'.



3 Touch 'A new zone controller'.



4 Follow the on screen instructions.




5 Press and hold the 'Pair' button until 3 green light flashes (on the button).

**NOTE:**

3 red flashes means the device failed to pair to master controller. Retry pairing the zone controller.



6

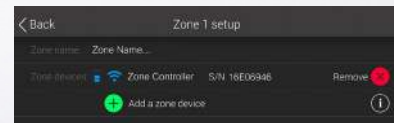
If successful, master controller will show that the device is paired. Confirm the serial number of the zone controller then touch  to accept.

**NOTE:**

Zone controller serial number is printed on the back of the device.




Next screen will show the paired zone controller and its serial number.



If a remote sensor is required, repeat steps 1-6. However, at step 3 select 'A remote sensor' then follow the on screen instructions.



## To Unpair a Zone Controller

1 Touch  on the right side of the zone control.



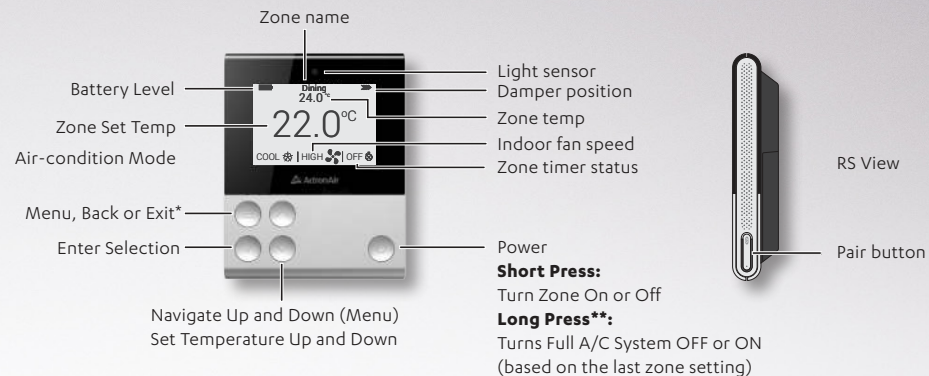
2 Follow the on screen instructions.





## Light Indicator (Pair Button)

Action	Function	LED Indication
Pairing button - press	Check wireless communication with Master Controller	Green LED flashes once: communication successful
		Red LED flashes once: communication failed or not paired
Pairing button - press & hold	Pair wireless communication with Master Controller	Green LED flashes 3 times: pairing successful
		Red LED flashes 3 times: pairing failed




## Zone Control Identification

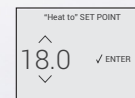





## Temperature Set Point

Cooling or Heating : To adjust temperature set point, press  or .

### Auto:

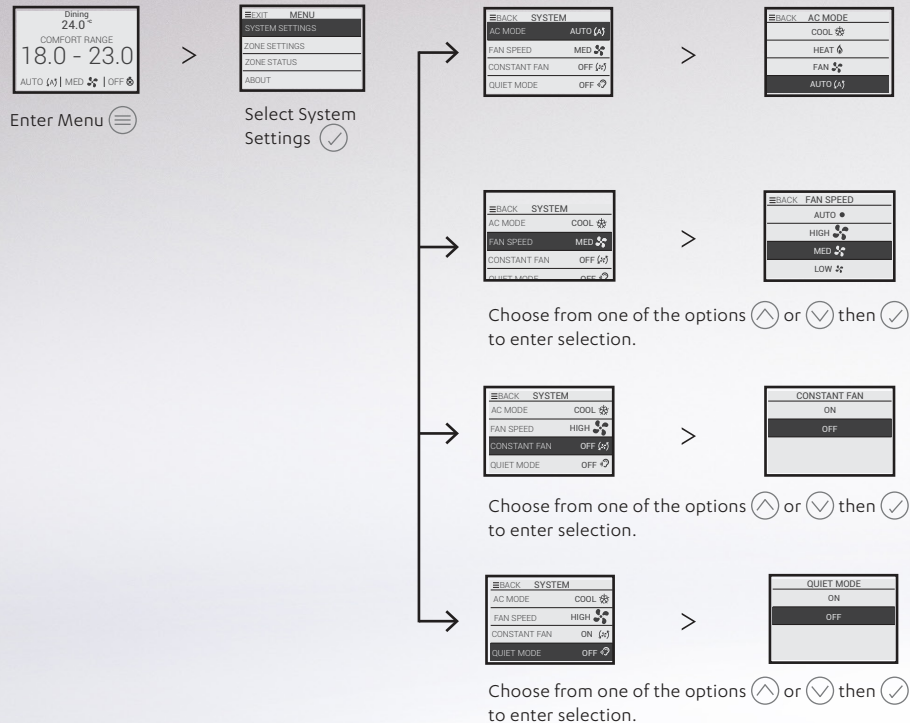
1 To adjust temperature set point, press  or  to adjust 'Heat to' set temperature then press  to accept.



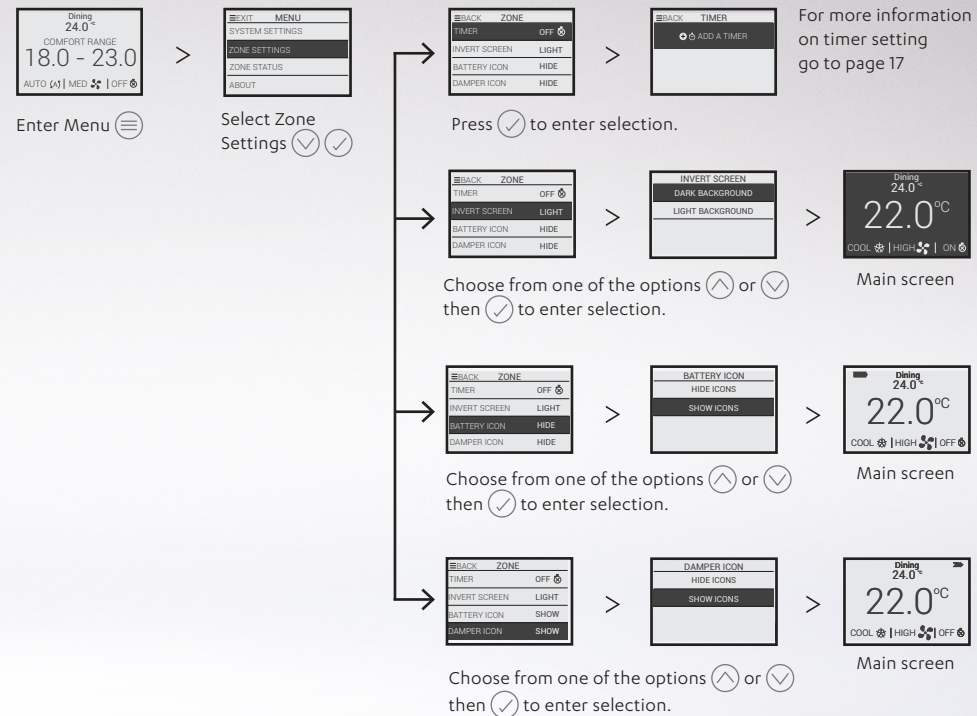
2 The screen will proceed to 'Cool to' set temperature. Press  or  to adjust then press  to accept.



## System Settings

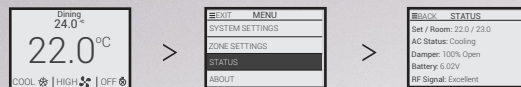


## Zone Settings





## To View Zone Status



Enter Menu (☰).

Select 'Status' (✓).

- Set Temperature:** Zone set point.
- Room Temperature:** Zone environment.
- AC Status:** Off, Cooling, Heating, Standby.
- Damper:** Zone damper position; closed, 5%, 10%, 15%.....100% Open.
- Battery:** Actual battery voltage.
- RF Signal:** Signal strength between the master controller and zone controller; 'None', 'Poor', 'Good' and 'Excellent'.

## To View Device Information



- Zone 'X':** Name assigned to the zone
- Device S/N:** Serial number of physical zone device.
- Software version:** Firmware version.
- Network ID:** Unique communication address used by the control system.
- Master Addr:** The wall controller address where the zone device is paired to. '1' if paired to master controller and '2' if paired to secondary controller.

## To Add A Zone Timer

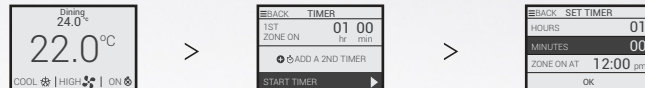


From zone settings, enter Timer (✓).

Select add a timer (✓).

Select zone action for the timer (↑) (↓). Press (✓) to accept.

Set the required Hrs (↑) (↓). Press (✓) to accept.



When Timer is active, main screen will show 'ON'.

Press (✓) then (✓) to start 1st Timer.

Set the required mins (↑) (↓). Press (✓) to accept. Then OK (✓).

## To Cancel Or Stop An Active Zone Timer



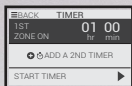
From zone settings, enter Timer (✓).

Press (✓) to select 'cancel timer'. Press (✓) to accept.

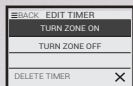
Press (✓) to confirm. Press (✓) to accept.

Countdown timer is stopped.

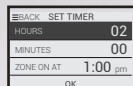
## To Edit A Zone Timer



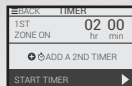
From timer screen, enter 1st Timer ✓.



Change zone action if required ✓ ✓.

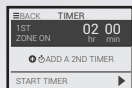


Change the hour ✓ ✓.  
Select OK then press ✓.



Select Start Timer ✓ ✓,  
then press ✓ to accept.

## To Delete A Zone Timer



From timer screen, enter Timer to be deleted ✓.

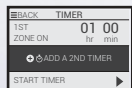


Select 'Delete Timer' ✓,  
then press ✓ accept.



Select the last option ✓,  
then press ✓ to confirm.

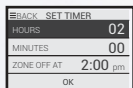
## To Add A Second Zone Timer



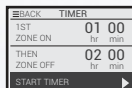
From timer screen, select 'Add 2nd Timer' ✓ ✓.



Select zone action for the 2nd timer ✓ ✓.  
Press ✓ to accept.



Set the required Hrs and min ✓ ✓.  
Press ✓ to accept.



Press ✓ to start the timers (2nd timer will only start after the 1st).

## Battery Power Indicator

Battery level of zone controller can also be viewed on master wall controller, MENU > SETTINGS > ZONE SETTINGS.

Battery %	Display
≥75%	
≥50%	
≥25%	
<25%	

### NOTE:

The zone damper will close once battery is consumed. To reactivate the damper, please replace the batteries.

## Damper Position Indicator

On the main screen, damper status will be displayed in 6 steps.

Damper Position	Display
81% - 100%	
61% - 80%	
41% - 60%	
21% - 40%	
1% - 20%	
Closed	None

## Frequently Asked Questions (FAQ)

### **1. Q: Do I need a WiFi signal or internet connection to install the QUE system?**

A. No. You can install and use a QUE system without a WiFi signal or internet connection. Because the zone devices use inbuilt RF signal to communicate with the Master Controller, they can operate without an internet connection. However, you need a WiFi signal to install a secondary controller and an internet connection to control the system remotely via the QUE Connect App.

### **2. Q: How many zones and how many zone dampers can be installed in the system?**

A: A maximum of 8 zones, with a total of 10 dampers.

### **3. Q: If a zone controller is too far from the Master Controller to be in range, what options are available?**

A. We recommend that you investigate if the Master Controller can be relocated to a more suitable location within the specified range. Alternatively, you can consider installing a secondary Master Controller, which acts as a RF repeater which increases signal coverage.

### **4. Q: Can I use a WiFi booster to improve the range of the Master and Secondary Controllers?**

A: Yes, however you must ensure the WiFi signal booster is configured to ensure compatibility with your system.

### **5. Q: When using the Master Controller, how will you know which device is connected to which zone?**

A. You can view the set up page to identify the unique serial number which is assigned to each individual zone. On main controller go to Menu > Settings > System Settings > Zone Setting. Following this, you can customise the name of each zone.

### **6. Q: Can I connect the Master and Secondary Controllers to power source other than the indoor board?**

A. No, both the Master & Secondary Controllers must be connected to the indoor board, where they are both allocated a dedicated terminal.

### **7. Q: What power source options are available for the Zone Controller and Remote Sensor?**

A. You have a wired option whereby you use the RJ45 cable from the damper motor, or a wireless option whereby you use AAA batteries.

Note: Do not use both power sources at the same time.

### **8. Q: If I replace a defective Master Controller do I need to set up the whole system again?**

A. Yes. You need to complete the commissioning process again.

### **9. Q: If I replace a defective Secondary Controller do I need to set up the whole system again?**

A. No. Simply connect the new Secondary Controller, ensuring it is configured to the same WiFi connection as the Master Controller. Then from the Master Controller simply go to Menu>Settings>System Setting>Main Controller settings. Once there, remove the link of the old Secondary Controller and update to link to the new Secondary Controller.

### **10. Q: Can I swap the master controller to the secondary controller and vice versa?**

A. No. If you do, it will impact the operation of the system.





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