airtouch 5

Installer Manual

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Compatible Brands

1. Components

1.1 Console (657254)

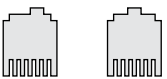
The central interface for AirTouch. This is the primary method for users controlling their Air Conditioner. All set up is done via the console.

1.2 Main Control Module (657256) and Extension Module (657242) (optional)

Main control module (8 zones) and its optional extension module (extra 8 zones) control the position of the motorized damper for each zone.

1.3 Motorized Damper (Bright Green) (552049)

Motorized dampers drive the blade of the damper to adjust the air supply.



Control
Left Latch

12m (567095)
30m (657235)

Data
Central Latch

12m (567096)
30m (657236)

1.4 Cables

Cables with left latch or central latch plugs connect the main control module, extension module (if applicable), console, and motorized dampers together.

1.5 Supply Air Sensor (657186) (optional)

Supply air sensor measures the temperature of the supply air for auto mode recognition or used in zones for zone and AC control.

1.6 Power Supply (657154)

24VAC transformers provide power to the main and extension modules.

1.7 AC Gateways (optional) (See contents for partcode)

AC gateways are for full control of most major brand ducted systems. For a list of available gateways see p25 Each gateway comes with a RS485 cable for connecting the gateway to AirTouch 5.

1.8 Wireless temperature sensor (ITC) (657257)

ITC sensors are used for zone/AC temperature and On/Off control. Each zone can have up to two ITC sensors. The ITC sensors send measured room temperature and On/Off commands back to main module regularly. They are driven by button type battery and have dipswitches for their own identification.

2. Configuration

AirTouch 5 uses the main control module as the central hub for the system. The Main Module facilitates communications between up to 8 AC Units, up to 16 dampers, up to 2 consoles. The figure, right shows the general layout of the main module.

The wiring of the AirTouch 5 system is straightforward. A cable with central latched plug connects a motorized damper to the relevant output port clearly marked on the main or extension module.

If there is more than 1 gateway and more than 1 AC, they will be connected to a Modbus line. Maximum 8 gateways can be connected for AirTouch 5 to control 8 AC's. Please see AC wiring diagrams for details in section 6.

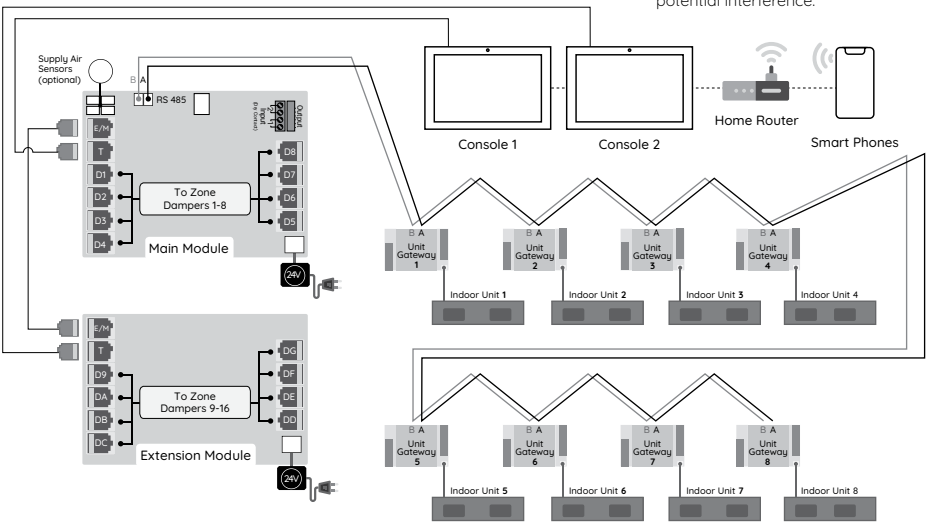
Main and extension modules can be in different locations and connected via a cable with left latched plugs on both ends. The console is connected to the 'T' port on main module.

Up to two consoles can be joined in a system. One will be connected to the main module and the other to the extension module. One console will be set to Master (1) and the other to Slave (2) automatically by the system. The Master is in charge of WiFi communications.

Main Module	Extension module required
Up to 8 dampers	9-16 dampers
1 Wall Console	2 Wall Consoles
Up to 8 AC units	

Figure below shows a generic example of the maximum capacity of AirTouch 5.

Note: Install the console at least 20mm away from any other wall control to avoid potential interference.



Unit gateways are wired in sequence

3. Pre-Installation

Good planning leads to a successful zone system installation. Before installing and commissioning a zoning system, please complete the following listed tasks:

3.1 Decide how many dampers are to be controlled in the system.

3.2 Group dampers into zones according to customer's requirements. Each zone initially has one damper but can have up to a maximum of four dampers (Example: There could be one or more dampers going into a common area such as Kitchen/Dining room). Work out the total zone number (Maximum total zone number in a system is 16).

NOTE: It is important to test all cables before installation. Testing all cables before the start of the installation will save considerable diagnostic time if the fully installed system is subsequently found to have a problem. Cable testing is quick and easy with a Zonemaster Cable tester available from Polyaire.

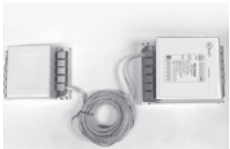
Cable Tester (Item: 657089)

4. Components Installation

4.1 Mount the main and/or extension modules (if using more than 8 zones) by screwing the boxes to a roof frame or Polyaire Diffusion Fitting (PDF). Ensure the modules are securely mounted and away from heat sources such as roof tiles.

4.2 Remove the two side covers on the main module to expose all LEDs and sockets for zone dampers.

4.3 If the extension module is used, connect main module to extension module at **'E/M'** port on both modules with a left latched cable.



4.4 Use pre-tested cable to connect **'D1'** port on the main module to the motorized damper of the 1st zone.

4.5 Repeat step **4.4** to connect other zone dampers to their relevant damper ports on the main and extension modules.

4.6 (Optional) Mount the supply air sensor in the supply air duct between the fan coil and the first damper or where it is used. Plug the supply air temperature sensor into the socket on the main module. For the Corresponding AC.

4.7 Connect the console to the 'T' port on the main module. If two consoles are used, connect one to T on the main module and the other to the extension module.

4.8 Connect the 24V AC transformer to screw terminals on the main control module. If extension module is used, connect another 24V AC transformer to the screw terminals of the extension module.

4.9 Connect the main module to the AC unit using the required kit for the respective AC unit (cables and interface board). Follow the wiring diagram for the respective unit provided on Page 25-73 of this manual.

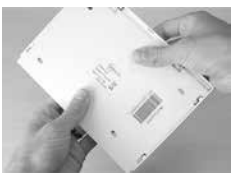
4.10 Replace the side covers back on the main control and extension module once finished setting and commissioning.

4.11 Remove the cover of the ITC from the base. Install the base with screws in proper positions where there is no direct sun, no draft, about 1.5m above ground and not far from the Main Module. Set the correct zone number and identification number (Sub ID) for each sensor. And activate the battery to start the wireless sensor. Then align the cover with the base and click the cover to position to complete the sensor installation. More information on ITC installation on p21.

4.12 Fit the Console to the wall.

The plastic casing of the console consists of two halves. The front cover contains the PCB board along with the LCD/console. The back cover attaches to the wall as a mounting base. During the installation process the case will have to be opened to mount the console on the wall. Follow the steps below to carefully install the console to the wall:

a Slide out the mounting base from the back of the console



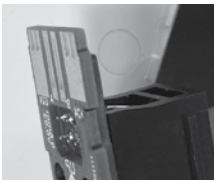
b Push out and remove the small plastic cover on the mounting plate to expose the hole for the RJ12 socket.

c Mount the plate on the wall at a proper position (about 1.5m above from the ground, away from direct sunlight) and cut a hole on the wall where the small cover was.

Note: The correct back cover direction is marked on its surface; follow that mark when fixing the back cover.

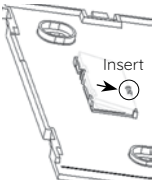
d Pull in the cable from the hole and connect it to the RJ12 socket

(Part number #657258)

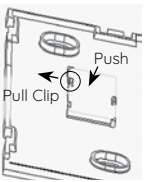


e Snap on the socket to the mounting plate with the arrow pointing upwards.

Align (Arrow upwards) and Push in one side first



Then snap in the other side



f Align and slide in the console to complete the console installation.

Click Here
For Console mounting video instructions.
youtu.be/Tnq7OrvYxnc

5. Recommended Commissioning Procedure

5.1a Power up the console.
Press “START” button.

5.1b Select “Set up offline” button at bottom left of the screen. WiFi is best set up at a later time.

5.1c Adjust time zone, date, and time if choosing Set up offline. And click “Next” to continue.

5.1d Select required Google Services.

5.1e Select **Skip** screen lock. If a screen lock is required, it must be set later.

5.1f Select **No Thanks** on the two remaining screens. The AirTouch 5 app will start automatically.

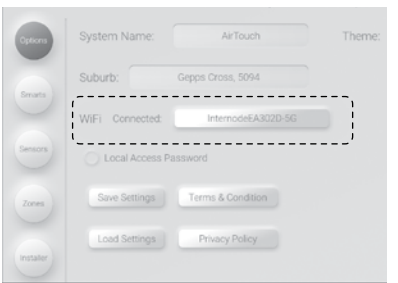
5.1.1 WiFi Setup

How to connect AirTouch 5 to a home router, which will enable the control/operation of the AC unit(s) and zoning via your phone.

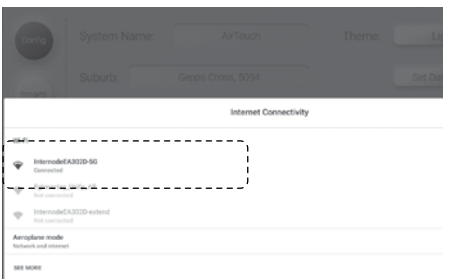
1 Open the Quick Menu & select Settings tab

2 Select Options

3 Select Connect to WiFi



4 Select your network and input your password



5.1.2 Updates

Please make sure AirTouch 5 is connected to a home router or hotspot which has internet access. When first setting up, tap the update button and check for and apply any new updates prior to changing settings. If there is a red dot on the top right corner of the Quick Menu, a new software version is available for update. Follow the red dot and prompts to update the system. If the update fails, please try it again.

1 Open the **Quick Menu** & select **Settings** tab

2 Select **Options**

3 Select **Update**

Remote Internet Control

For remote AC control over the internet, ensure Internet Access is ticked under **Quick Menu>Settings>Options**.

Local Access Password Protection

When enabled, mobile devices connected to the same WiFi Network as AirTouch will need the password to use the App.

Hotspot

If AirTouch doesn't have access to the internet, you can still control it locally over WiFi with the AirTouch App by using the console as a WiFi Hotspot.

To setup AirTouch as a Hotspot, go to **WiFi Settings, More> Tethering & Portable Hotspot> Portable WiFi Hotspot**.

Turn it on and set a password. You can then connect your smart devices to this WiFi Hotspot to control AirTouch using the App. Do not set **Local Access Password** when using hotspot.

Installer Settings

Installer settings default password: **Polyaire**

There are two lots of settings, the Installer's and User's. In the Installer's settings, the following can be set:

General (system parameters)
Zoning
AC Setup
Sensor Setup
Spill/Bypass
Service

User settings are outlined in the User Manual. In the user's settings, the followings can be set:

System Name
Theme
Location
WiFi connection
Zone Names
Sensor Setup
Geofencing
Weather Adaption
Alerts
Home Temperature Limits
Sleep/Away mode

5.2 General

Total Zones the system needs to how many zones have been installed. If this number is incorrect the system may not work correctly. The default number is 8.

Installer Password The password to the installer settings can be changed to prevent unauthorised access to the system. The default password for Installer Settings is "Polyaire".

Display Control Sensor Temp When selected, the temperature reading from the AC control sensor will be displayed next to or below the AC set point on the home screen.

Lock Zones to Temp Control When selected, zones with temperature sensors will only be controlled via temperature and not be able to be controlled by percentage manually.

Reset and Save To record all system settings, press Save Settings button. Settings will be saved to the console. If an SD card is plugged in the console, the settings will be saved to SD card and the Console. If internet is available, settings will also be saved to the cloud.

To Load settings, select the load settings button and follow the prompts, if an SD card with settings is detected, AirTouch will load settings from the file on the SD card.

If the system needs to be reset to factory default settings in some cases, press Reset to Factory. All zone names and settings will be back to original factory settings.

5.3 Zoning

Zoning enables you to set up the system exactly to your clients specification. Dampers are plugged into the main module and are by default assigned to a single zone, multiple dampers can be grouped together into a single zone.

5.3a Total zone number is set to 8 by default, if you need to adjust this go to **settings>installer>general.**

5.3b For non Polyaire damper motors, input the required settings here.

Non Polyaire dampers must have:
Power Supply 24VAC
RPM between 0.1-2.5
Drive open/close in opposite directions

5.3c The Zone list shows what dampers will be affected when a zone is adjusted on the home screen. (eg (right) D2, D3 & D4 will all close when Dining is turned off).

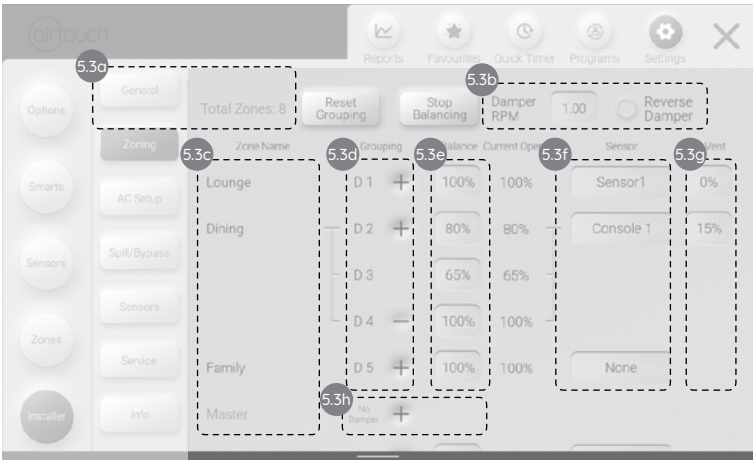
5.3d To group dampers together, press the + button next to the damper name (D#). To ungroup a damper, press the - button. The max number of dampers in a zone is 4. Dampers must be in consecutive ports to be grouped together.

5.3e Balance controls the maximum position a damper will open. When a balance amount is selected, all dampers will open to their balanced position. Overall opening of a damper is calculated as %Open x Balance %

5.3f If a zone has multiple temperature sensors, one can be selected to control the zone, N/A is the default.

5.3g Min Vent prevents the dampers from fully closing when the zone reaches its set point. Minimum vent is only available when a sensor is being used and a zone temperature is set.

5.3h To disable a faulty damper port on the main module, select balance>N/A


airtouch
Reports
Favourites
Quick Timer
Programs
Settings
5.3a
General
Options
Total Zones: 8
Reset Grouping
Stop Balancing
5.3b
Damper RPM
1.00
Reverse Damper
Zoning
Smarts
AC Setup
5.3c
Zone Name
5.3d
Grouping
5.3e
Balance
Current Open
5.3f
Sensor
5.3g
Vent
Sensors
Spill/Bypass
Lounge
D 1
100%
100%
Sensor1
0%
Dining
D 2
80%
80%
Console 1
15%
Zones
Sensors
D 3
65%
65%
D 4
100%
100%
Service
Family
D 5
100%
100%
None
Installer
Info
Master
5.3h
No Damper

5.4 AC Setup

When relevant gateways are connected to the AirTouch 5 main module, AirTouch will automatically recognise the AC Unit's brand. AirTouch 5 will have full control of the AC Units, such as operation modes, fan speeds and set point. For a list of available gateways see section 6 (p25).

5.4a If each AC unit feeds conditioned air into independent duct systems, it is a Multiple Ducted System. In a Multiple Ducted System, each AC unit has its own Spill and Turbo settings.

5.4b If Auto Off is enabled, the AC unit will turn off automatically when all zones are turned off. It is enabled by default.

5.4c If Auto On is enabled, when any zone is turned on, the AC will also turn on. Auto On is disabled by default.

5.4d In a Multiple Ducted System, installers must define what zones relate to which AC units. This allows proper application of Spill and Turbo settings. Zones are assigned to AC units in the order they are displayed on the home screen.

5.4e Set where the AC unit measures its temperature. Check the commissioning notes for each AC unit and verify remote temperature sensor is enabled. If this process isn't followed the AC unit will not use the selected sensor as the control sensor but use its own return air sensor or wall controller sensor.

AC - AC unit sensors, wall controller or return air sensor.

Zone - A sensor within a zone, if this zone is off, control will revert to the AC sensor.

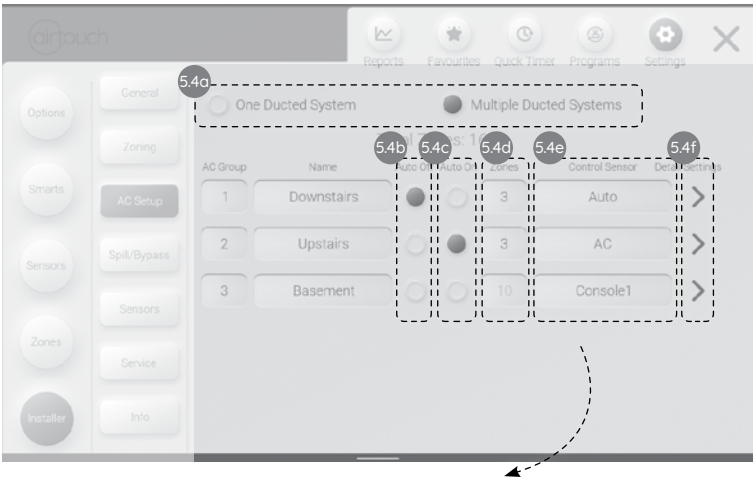
Console - The sensor within the AirTouch console. Not recommended due to heat impact.

Average - The average of all ITC sensors in the system.

Auto - A sensor within an On zone that has the largest discrepancy between set point and measured value. When another zone sensor has a larger discrepancy, control will switch. When all sensors have reached set point or are turned Off control reverts to AC sensor.

Economy - Economy operates the same as Auto, except control will only revert to AC sensor when all zones with sensors are turned Off.

5.4f Detail Settings. Detail settings contains options for modes and fan speeds. Cross check these options to the actual capabilities of the AC unit.



Check the commissioning notes for each AC unit and verify remote temperature sensor is enabled.

5.5 Spill/Bypass

Spill or Bypass mode is a safety feature of the AirTouch 5 system to prevent pressure from building up and causing duct damage. This usually occurs if someone has turned off all zones while the AC unit is pumping air into the system leading to a pressure build-up (and potential of duct puncture, blow-offs or joints splitting).

It is designed to automatically open dampers if someone attempts to shut down all dampers thus preventing pressure build up.

Spill function opens the zone(s) chosen as spill zone(s) in the system when all zones are closed.

The system will maintain the number of zones chosen as spill zones open at any time when AC is running. For instance, there will be at least two zones fully open if two zones are chosen for spill. The first zone in the chosen spill zone list will open first to spill. The maximum number of spill zones is half of the total zones.

When choosing zones for spill, it is strongly recommended NOT to use bedrooms as spill zones. During sleep time if the air conditioner is on and spill zones are forced to open, the spill zones will be very cold or hot.

Bypass function opens the bypass damper which connects the supply duct to the return duct directly when all zones are closed. Each AC unit only has one bypass damper.

IMPORTANT: Always set at least one spill zone unless there is a permanently open zone used as spill zone. Otherwise, all dampers will be able to close and damage may be caused by high pressure building up inside ducts.

5.6 Sensors

Temperature sensors are used for measuring zone temperature, control zone temperature or AC and On/Off if required. There are wireless temperatures sensors (ITC) and wired temperature sensors (console). Each ITC sensor has dipswitches that assign it to the zone where it is installed and used for temperature control.

5.6.1 Assign and pair a sensor to a zone

The console sensor can be assigned to the zone where it's installed in **Zoning** settings (5.3f).
For ITC sensors, follow the process below

5.6a Open the ITC and remove the battery preserver (for new ITC's).

5.6b Select the desired zone on the zone dial dip switch. (0 is for zone G)

5.6c In **Settings>Installer>Sensor** select the **Start Sensor Pairing** button, then hold down the zone button on the ITC sensor for **5 seconds**. The zone name corresponding to the selected dipswitch will appear and LED on the ITC will turn solid.

5.6d Repeat step 5.6c for each sensor you wish to pair.

5.6d To finish paring, press the **Stop Sensor Paring** button.

NOTE: If there are more than one ITC sensors in the same zone, set the zone dipswitch to the same position but different sensor ID by switching the **Sub IO** dipswitch to On. If the zone dial dipswitch or **Sub IO** switch has been changed after pairing it's necessary to re-pair the sensor.

5.6.2 ITC as AC Control Sensor

To set an ITC sensor as the Control sensor for the AC unit, change the **Free IO** switch to On. Sensors used as control sensors cannot be used to control a zone. The button on the ITC will act as a power On/Off switch for the AC unit if it is enabled in the settings.

5.6.3 ITC as a AC Switch

ITC sensors can be assigned to turn On/Off the AC unit in addition to their zone. To set up an ITC as a AC Switch, tap the zone name in the **Sensors** menu then select the **AC Switch** button.

The below chart shows what different colours on ITC Sensors mean:

	AC	Zone
Aqua	✓ On	✓ On
Red	x Off	x Off
Green	✓ On	x Off
Blue	x Off	✓ On

If a sensor is not set as an AC switch and the AC and zone are On, the sensor will display a blue light. ITC sensors will only check AC status when AC Switch is selected.

5.6.4 Calibrate a Sensor

If the temperature reading from the sensor is not accurate, it can be calibrated by changing the value in the calibration box on the sensor details page.

Click Here
For more information on the different functions of ITC.

5.7 Service

There is a built-in service reminder in the system for 6, 12 and 24 months to automatically display an alert notifying customers that the air conditioning system is due for service. Installers can also use this feature to leave their details such as their name and contact number.

5.7a Go to Settings>Installer>Service

5.7b Select the relevant reminders then fill in your contact details

Always test dampers after commissioning

6. Gateway Wiring Diagrams

Prior to AirTouch installation, all AC Units must be initialised with Standard AC Wall Controller connected to the AC Indoor Unit to complete necessary field settings and confirm the AC runs normally.

Turn OFF power and disconnect Standard AC Wall Controller from AC Indoor Unit if it's not going to be used.

Refer to relevant AC Gateway Drawings below to connect Gateway.

Refer to Dip Switch settings (if applicable) on the Gateway Drawings below.

After completing wiring and setting the dip switches, turn the power On. AC Indoor, Gateway and AirTouch 5 can be powered up at the same time. **Do not power up AirTouch 5 before the AC indoor unit or Gateway.**

(657212) Commissioning Notes & Wiring Diagram

1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position if the Daikin wall controller is connected as Master. Make sure all wires are connected properly.

2. Initialise the AC Unit with Daikin AC Wall Controller connected. The Daikin wall controller can be wired to P1 and P2 in parallel with the gateway.

3. If multiple gateways are present - follow gateway address table, by default gateways are addressed to 1.

4. If AirTouch 5 sensors are used for AC temperature control:

   Settings on the Daikin AC wall controller: Set thermostat sensor to the remote controller (Go to Field Setting, find Mode 10 (20), code 2 and change its value to 01 or 03 depending on the wall controller model numbers, if there is any doubt, please call Daikin to confirm). Remove it after the setting if the Daikin wall controller is not going to be used after commissioning. Otherwise, set Daikin AC wall controller as sub controller.

   Settings on the gateway: set position 1 and 4 on the gateway to On (1)

   Settings on the AirTouch 5 console: Select the proper control sensor or combination from the AC Setup screen in the Installer's settings.

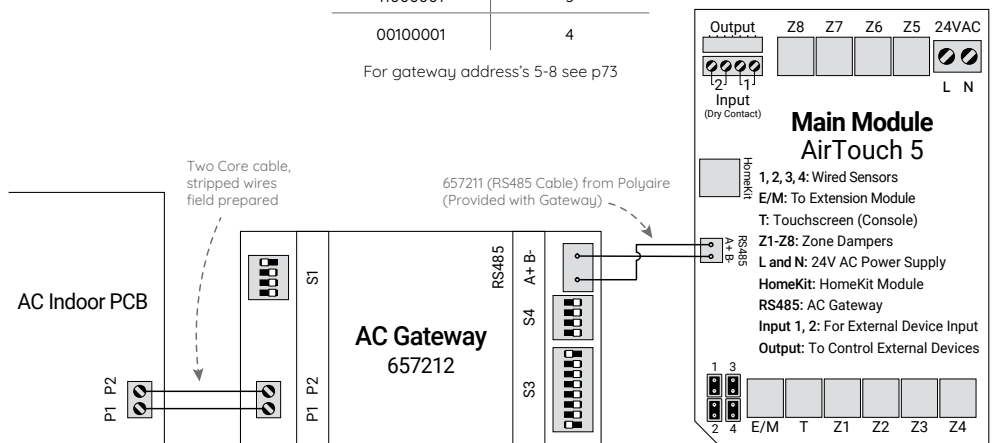
   Restart the AC and gateway first and then power up AirTouch 5.
   Or power them up at the same time.

Note: 0=Off, 1=On

Master/Slave Setting		
S1	S4	Gateway As:
0111	0000	Slave
1111	0000	Master

Gateway Address Setting	
S3	Gateway Address:
10000001	1
01000001	2
11000001	3
00100001	4

For gateway address's 5-8 see p73



(657237) Commissioning Notes & Wiring Diagram

1. Initialise the AC Unit with Daikin AC Wall Controller connected to set the field settings as required. Turn off power and disconnect the AC Wall Controller from AC Indoor Unit.

2. Wire AirTouch, gateway and AC indoor as per diagram and leave the dipswitches on the gateway at their default position if the Daikin wall controller is not connected. Make sure all wires are connected properly. If the gateway address is not 1, follow the Gateway Address Setting table to set dipswitch S1.

3. If the gateway is set to Master (default), set the Daikin wall controller to Sub. If AirTouch sensors are used for AC temperature control:

   Settings on the Daikin AC wall controller: Make sure the Daikin wall controller is connected as Main. Go to Field Setting, find Mode 10 (20), code 2 and change its value to 03 to set thermostat sensor to the remote controller. Remove it after the setting if the Daikin wall controller is not going to be used. Otherwise, set Daikin AC wall controller as sub controller.

   Settings on the gateway: set position 4 of S2 on the gateway to On (1) (default)

   Settings on the AirTouch console: Select the proper control sensor or combination from the Installer's AC setting.

   Restart the AC and gateway first and then power up AirTouch. Or power them up at the same time.

4. If Daikin wall controller is to be used with AirTouch as Main, set the gateway to Sub. If AirTouch sensors are used for AC temperature control:

   Settings on the Daikin AC wall controller: Go to Field Setting, find Mode 10 (20), code 2 and change its value to 03 to set thermostat sensor to the remote controller.

   Settings on the gateway: set position 4 of S2 on the gateway to Off(0)

   Settings on the AirTouch console: Select the proper control sensor or combination from the Installer's AC setting

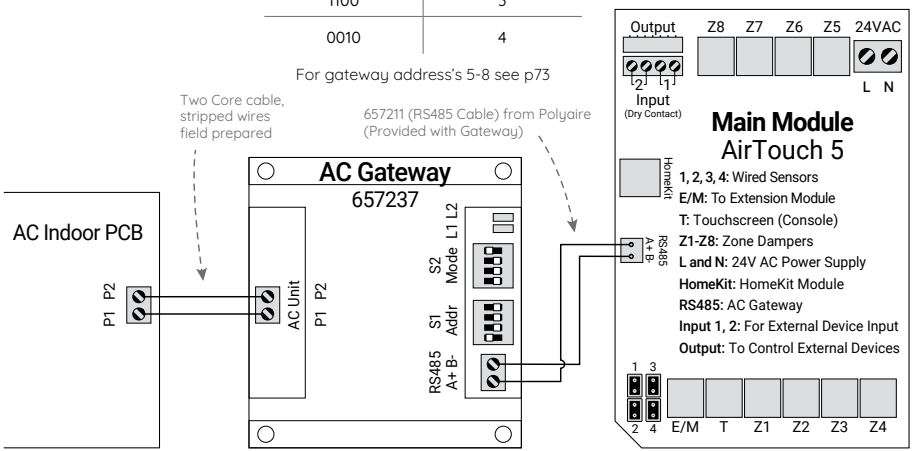
   Restart the AC and gateway first and then power up AirTouch. Or power them up at the same time.

Note: 0=Off, 1=On

Dip Switch Settings (Default)	
S1	S2
1000	0001

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73



(657213) Commissioning Notes & Wiring Diagram

Firmware Version After 2.3

Important: It's strongly recommended NOT to use the Panasonic wall controller and the gateway at the same time. It may damage the indoor PCB in long term and in extreme weather conditions.

1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.

2. Initialise the AC Unit with Panasonic AC Wall Controller connected. The Panasonic wall controller can be wired to R1 and R2 in parallel with the gateway.

3. Remove the Panasonic wall controller after commissioning and set the gateway as the Master by switching position one of S1 to On (1).

4. If AirTouch 5 sensors are to be used for AC temperature control, on the AirTouch 5 console go to **Settings>Installer>AC Setup** and select proper control sensor/combination.

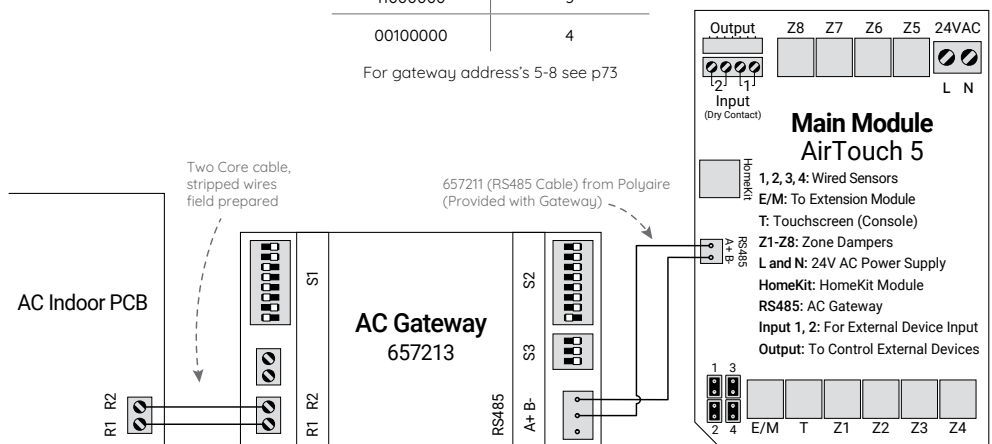
Note: 0=Off, 1=On

Firmware Version After 2.3

Master/Slave Setting	
S1	Gateway As:
01000010	Slave
11000010	Master

Gateway Address Setting	
S2	Gateway Address:
10000000	1
01000000	2
11000000	3
00100000	4

For gateway address's 5-8 see p73



(657213) Commissioning Notes & Wiring Diagram

Firmware Version Before 2.3

Important: It's strongly recommended NOT to use the Panasonic wall controller and the gateway at the same time. It may damage the indoor PCB in long term and in extreme weather conditions.

1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.

2. Initialise the AC Unit with Panasonic AC wall controller connected. The Panasonic wall controller can be wired to R1 and R2 in parallel with the gateway.

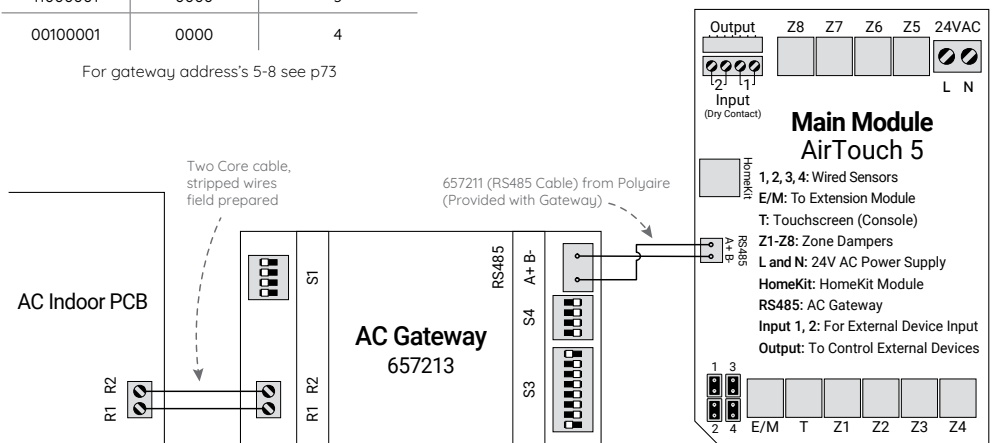
3. Remove the Panasonic wall controller after commissioning.

4. If AirTouch 5 sensors are to be used for AC temperature control, on the AirTouch 5 console go to **Settings>Installer>AC Setup** and select proper control sensor/combination.

Note: 0=Off, 1=On Firmware Version Before 2.3

Gateway Address Setting		
S3	S4	Gateway Address:
10000001	0000	1
01000001	0000	2
11000001	0000	3
00100001	0000	4

For gateway address's 5-8 see p73



(657238) Commissioning Notes & Wiring Diagram

IMPORTANT: It's strongly recommended NOT to use the Panasonic wall controller and the gateway at the same time. It may damage the indoor PCB in long term and in extreme weather conditions.

1. Wire AirTouch, gateway and AC indoor as per diagram and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly. If the gateway address is not 1, follow the Gateway Address Setting table to set the address.

2. Initialise the AC Unit with Panasonic AC wall controller connected to do the required field settings. The Panasonic wall controller can be wired to R1 and R2 in parallel with the gateway.

3. Remove the Panasonic wall controller after commissioning.

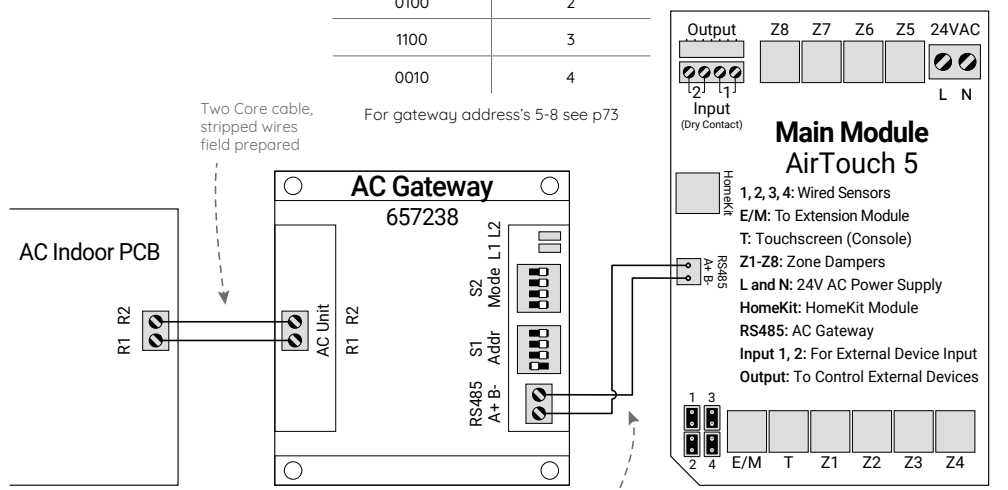
4. If AirTouch 5 sensors are to be used for AC temperature control, on the AirTouch 5 console go to **Settings>Installer>AC Setup** and select proper control sensor/combination.

Note: 0=Off, 1=On

Dip Switch Settings (Default)	
S1	S2
1000	0000

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73



(657218) Commissioning Notes & Wiring Diagram

1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. If the indoor unit is a VRF, please set the correct indoor type as per the Indoor Type Setting table in the wiring diagram. Make sure all wires are connected properly.

2. Initialise the AC Unit with Toshiba AC Wall Controller connected. The Toshiba wall controller can be wired to A and B in parallel with the gateway.

3. Remove the Toshiba wall controller if it is not to be used after commissioning. Otherwise, Toshiba's wall Controller should be always set as Follower.

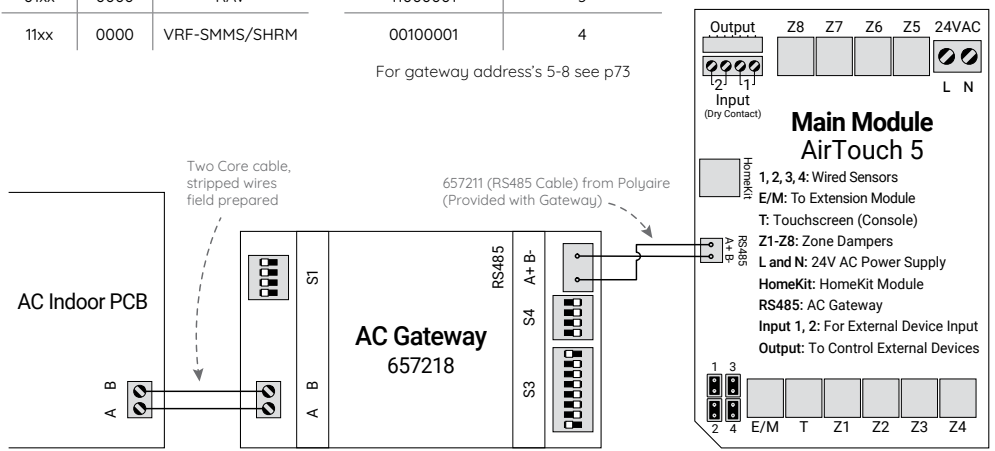
4. If AirTouch 5 sensors are to be used for AC temperature control, on the AirTouch 5 console go to Settings>Installer>AC Setup and select proper control sensor/combination.

Note: 0=Off, 1=On, x=On or Off

Indoor Type Setting		
S1	S4	Indoor Type
00xx	0000	Not Defined
10xx	0000	VRF-SMMSi
01xx	0000	RAV
11xx	0000	VRF-SMMS/SHRM

Gateway Address Setting	
S3	Gateway Address:
10000001	1
01000001	2
11000001	3
00100001	4

For gateway address's 5-8 see p73



(657246) Commissioning Notes & Wiring Diagram

1. Wire AirTouch, gateway and AC indoor as per diagram on the left and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.

2. If AirTouch sensor is used for AC temperature control, go to AirTouch AC setting and choose the proper sensor.

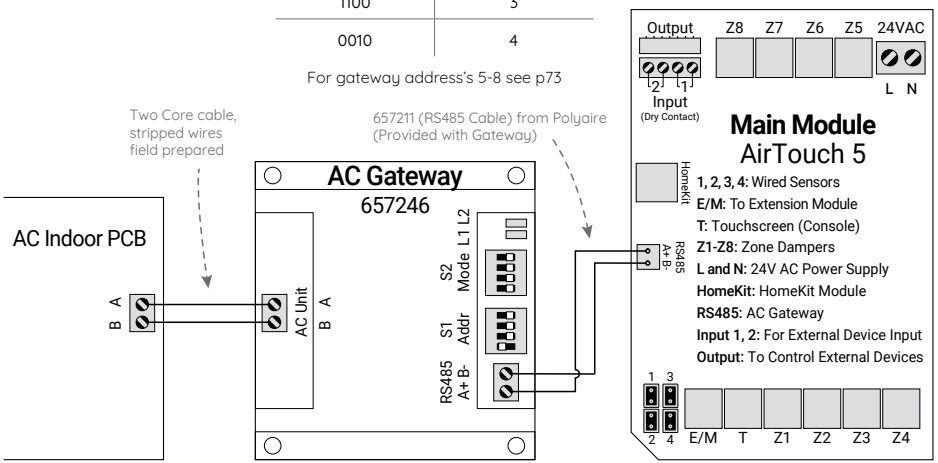
3. If the gateway address is not 1, please change the S1 setting as below.

Note: 0=Off, 1=On, x=On or Off

Dip Switch Settings (Default)	
S1	S2
1000	0000

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73



(657214) Commissioning Notes & Wiring Diagram

1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.

2. Initialise the AC Unit with Fujitsu AC Wall Controller connected. The Fujitsu wall controller can be wired to B, W and R in parallel with the gateway.

3. If Fujitsu wall controller is not to be used after commissioning and the return air sensor is used for AC temperature control, set position 1 of S1 on the gateway to ON (1) and restart the AC and AirTouch 5.

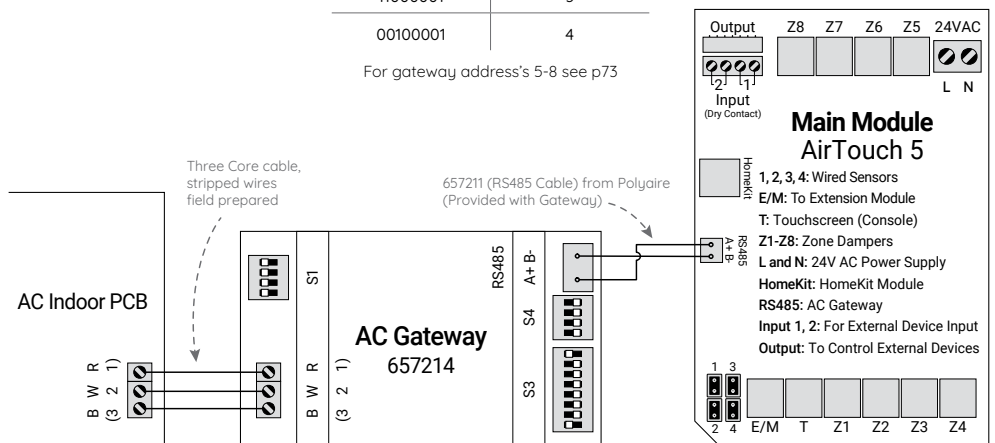
4. If AirTouch 5 sensors are used for AC temperature control:
   Settings on the AC wall controller: Set thermostat sensor to the remote controller (Go to **Service>Function Setting**, find Function No 42, and set its value to 01. Then go to Submenu and change “R. C. sensor control” from Off to On).
   Remove the Fujitsu wall controller if it’s not to be used after commissioning.
   Settings on the Gateway: Set position1 of S1 to ON (1)
   Settings on the AirTouch 5 console: Go to **Settings>Installer>AC Setup** and select the proper Control Sensor for AC control, Restart the AC and gateway first and then power up AirTouch5 or power them up at the same time.

Note: 0=Off, 1=On

Master/Slave Setting		
S1	S4	Gateway As:
0000	0000	Slave
1000	0000	Master

Gateway Address Setting	
S3	Gateway Address:
10000001	1
01000001	2
11000001	3
00100001	4

For gateway address's 5-8 see p73



(657239) Commissioning Notes & Wiring Diagram

1. Initialise the AC Unit with Fujitsu AC wall controller connected to set the required field settings. Then disconnect the AC wall controller if it's not to be used.

2. Wire AirTouch, Gateway and AC indoor as per diagram and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly. If multiple gateways are installed and gateway address is not 1, follow the Gateway Address Setting table to set dipswitch S1.

3. In the case the gateway is master and Fujitsu wall controller is connected as slave (sub) or not connected: If AirTouch sensors are used for AC temperature control:

   Settings on the AC wall controller: Have the Fujitsu wall controller connected as Master and set thermostat sensor to the remote controller (Go to Service->Function Setting, find Function No 42, and set its value to 01. Then go to Submenu and change "R. C. sensor control" from Off to On). Then set the wall controller back to Slave (sub) or remove it if it's not to be used.

   Settings on the Gateway: Set position 4 of S2 to On (1) (Default).

   Settings on the AirTouch console: Go to Settings>Installer>AC Setup and select the proper temperature sensor for AC Control.

   Restart the AC and gateway first and then power up AirTouch or power them up at the same time.

   If AirTouch sensors are not used and the Fujitsu wall controller is not connected, the AC control sensor has to be set to AC return air sensor. The AirTouch console will show AirTouch sensors' temperature as Home Temp or Control Sensor value.

4. In the case the gateway is connected as Slave and Fujitsu wall controller is connected as Master. If AirTouch sensors are used for AC temperature control:

   Settings on the AC wall controller: Set thermostat sensor to the remote controller (Go to Service->Function Setting, find Function No 42, and set its value to 01. Then go to Submenu and change "R. C. sensor control" from Off to On).

   Settings on the Gateway: Set position 4 of S2 to Off (0)

   Settings on the AirTouch console: Go to Settings>Installer>AC Setup and select the proper temperature sensor for AC control.

   Restart the AC and gateway first and then power up AirTouch or power them up at the same time.

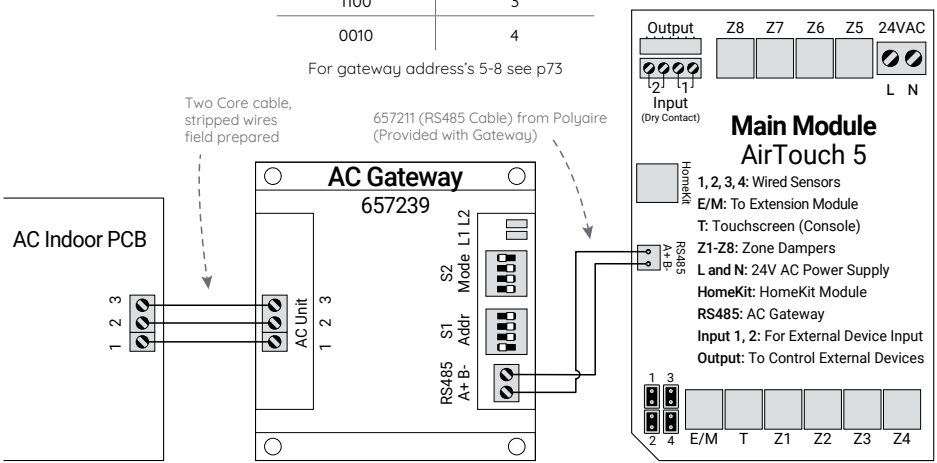
If AirTouch sensors are not used for AC temperature control and the AC is set to use its return air sensor as control sensor, the AirTouch console will show AirTouch sensors' temperature as Home Temp or Control Sensor value.

Note: 0=Off, 1=On

Dip Switch Settings (Default)	
S1	S2
1000	0001

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73



(657215) Commissioning Notes & Wiring Diagram

1. Beware of the different dip switch settings for firmware before 2.0 and after 2.0 (including 2.0)
2. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.
3. Initialise the AC Unit with ME AC wall controller connected.
4. Remove the ME wall controller if it is not to be used after commissioning. Make sure the AC control temperature is measured from the indoor unit return air.
5. On the AirTouch console go to **Settings>Installer>AC Setup** and select the proper temperature sensor for AC control.

Note: 0=Off, 1=On

Firmware Below V2.0

Gateway Address Setting		
S3	S4	Gateway Address:
10000000	1000	1
01000000	1000	2
11000000	1000	3
00100000	1000	4

S1 is not used with firmware below 2.0

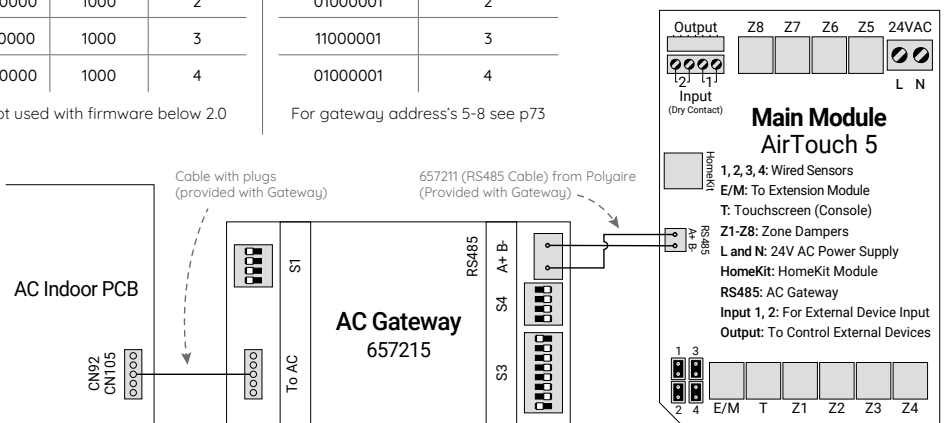
Firmware V2.0 and Above

Gateway Address Setting	
S3	Gateway Address:
10000001	1
01000001	2
11000001	3
01000001	4

For gateway address's 5-8 see p73

Firmware V2.0 and Above

Fan Speed Setting		
S1	S4	Total Fan Speed Numbers
0000	0000	3 or 4
0001	0000	2



(657244) Commissioning Notes & Wiring Diagram

1. Wire AirTouch, gateway and AC indoor as per diagram and leave the dipswitches on the gateway at their default position. If the gateway address is not 1, follow the Gateway Address Setting table to set dipswitch S1. Make sure all wires are connected properly.

2. Initialise the AC Unit with ME AC Wall Controller connected.
   Check the AC field settings with the wall controller and make sure the AC control temperature is measured from the indoor unit return air.

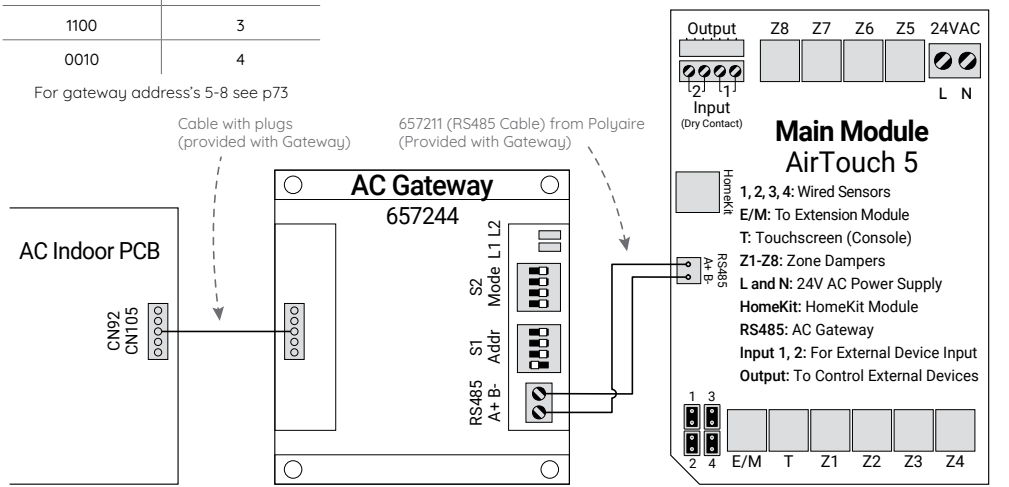
3. Remove the ME wall controller if it is not to be used after commissioning.

4. If an AirTouch sensor is used for AC temperature control, go to AirTouch AC setting and choose the AirTouch sensor. Make sure the AC control temperature is set to the indoor unit return air.

Note: 0=Off, 1=On

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73



(657219) Commissioning Notes & Wiring Diagram

1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.

2. Initialise the AC Unit with LG AC wall controller connected. The LG wall controller can be wired to CN-REMO in parallel with the gateway.

3. If the LG wall controller is not going to be used after commissioning and the return air sensor is used for AC temperature control: Turn off power and disconnect the AC wall controller and set position 1 of S1 on the gateway to On (1). Then restart the AC and gateway first and then power up AirTouch 5. Or power them up at the same time.

4. If AirTouch 5 sensors are used for AC temperature control:

   Settings on the LG AC wall controller: Set thermostat sensor in the remote controller (Go to Function Setting (Zone>Setting>Sensor), change it to REMO. Remove it after the setting if the LG wall controller is not going to be used after commissioning.

   Settings on the gateway: set position 1 of S1 on the gateway to On (1).

   Settings on the AirTouch 5 console: Go to Settings>Installer>AC Setup and select the proper temperature sensor for AC control.

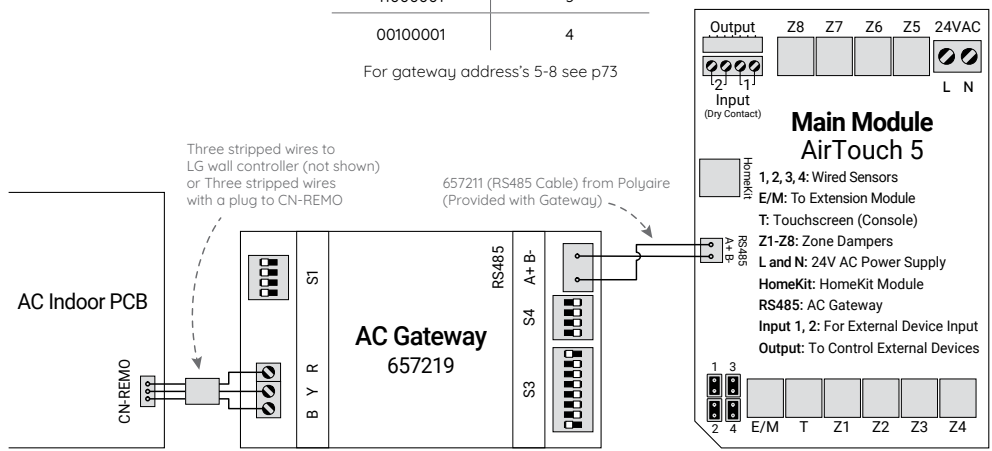
   Restart the AC and gateway first and then power up AirTouch 5. Or power them up at the same time.

Note: 0=Off, 1=On

Master/Slave Setting		
S1	S4	Gateway As:
0000	0000	Slave
1000	0000	Master

Gateway Address Setting	
S3	Gateway Address:
10000001	1
01000001	2
11000001	3
00100001	4

For gateway address's 5-8 see p73



(657216) Commissioning Notes & Wiring Diagram

1. Wire AirTouch 5, gateway and AC indoor as per diagram and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.
2. Set positions 2 and 3 of S1 on the gateway according to the number of indoor fan speeds.
3. Initialise the AC Unit with MHI AC wall controller connected. The MHI wall controller can be wired to X and Y terminals in parallel with the gateway. If the MHI wall controller is not going to be used after commissioning and the return air sensor is used for AC temperature control:
   Turn off power and disconnect the AC wall controller from AC indoor unit, and set position 1 of S1 on the gateway to On (1). Then restart the AC and gateway first and then power up AirTouch 5. Or power them up at the same time.
4. If AirTouch 5 sensors are used for AC temperature control:
   On the AirTouch 5 console go to **Settings>Installer>AC Setup** and choose the proper sensor from the Control Sensor list.

MHI gateway firmware versions:
V0.13 and below will not work RC-EX3
V0.14 and higher works with RC-EX3

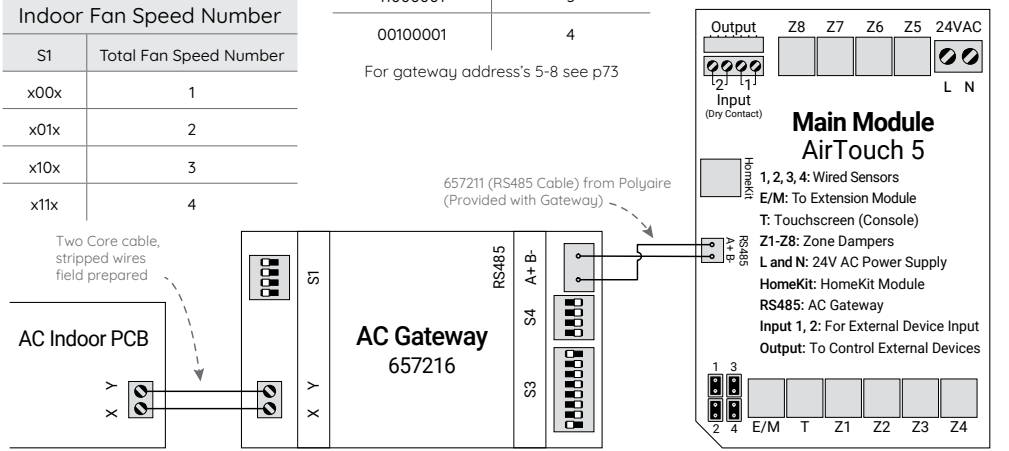
Note: 0=Off, 1=On, x=On or Off

Master/Slave Setting		
S1	S4	Gateway As:
0xxx	0000	Slave
1xxx	0000	Master

Gateway Address Setting	
S3	Gateway Address:
10000001	1
01000001	2
11000001	3
00100001	4

For gateway address's 5-8 see p73

Indoor Fan Speed Number	
S1	Total Fan Speed Number
x00x	1
x01x	2
x10x	3
x11x	4



(657245) Commissioning Notes & Wiring Diagram

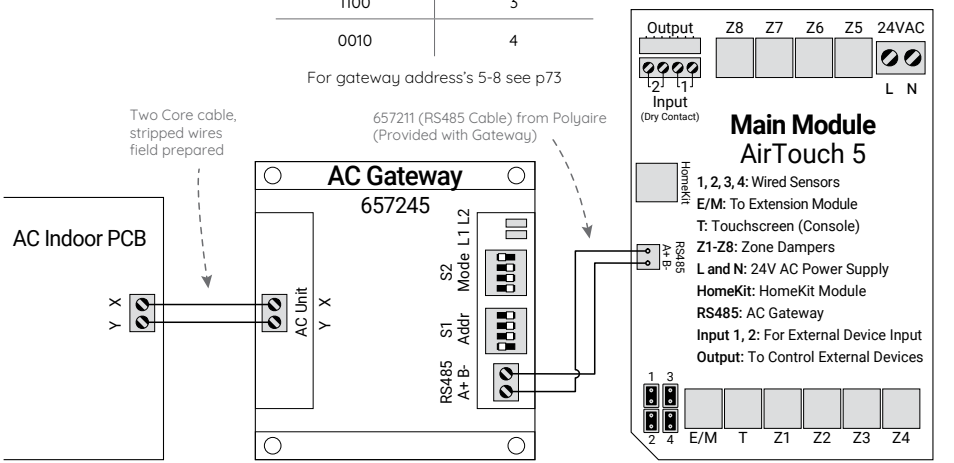
1. Wire AirTouch, gateway and AC indoor as per diagram on the left and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.
2. If AirTouch sensor is used for AC temperature control:
   Go to AirTouch AC setting and choose the proper sensor.
3. If the gateway address is not 1, please change the S1 setting as below.

Note: 0=Off, 1=On, x=On or Off

Dip Switch Settings (Default)	
S1	S2
1000	0001

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73



(657220) Commissioning Notes & Wiring Diagram

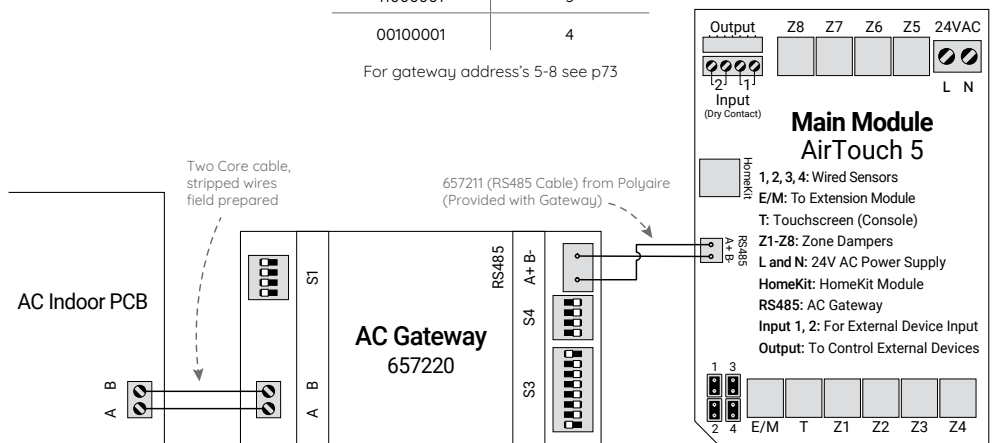
1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.
2. Initialise the AC Unit with Hitachi AC wall controller connected. The Hitachi wall controller can be wired to A and B terminals in parallel with the gateway.
3. If the Hitachi wall controller is not going to be used after commissioning and the return air sensor is used for AC temperature control: Turn OFF power and disconnect the AC Wall Controller from AC Indoor Unit, and set position 1 of S1 on the gateway to On (1). Then restart the AC and gateway first and then power up AirTouch 5. Or power them up at the same time.
4. If AirTouch 5 sensors are used for AC temperature control:
   - Settings on the Hitachi AC wall controller: Set thermostat sensor to the remote controller (Go to Function Setting, find Item C8, and change its value to 01). Remove it after the setting if the Hitachi wall controller is not going to be used after commissioning. Otherwise, set Hitachi AC wall controller as sub controller (go to Function Setting, find Item code F2, and set its value to 01).
   - Settings on the gateway: set position 1 of S1 on the gateway to On (1).
   - Settings on the AirTouch 5 console: Go to Settings>Installer>AC Setup and select the required temperature sensor from the Control Sensor list.
   - Restart the AC and gateway first and then power up AirTouch 5. Or power them up at the same time.
   - Note: Availability of AUTO mode in indoor unit depends on indoor unit configuration (configuration is made from Hitachi wall controller). If it's not configured, changing to Auto will be accepted, but indoor unit will continue in previous mode.

Note: 0=Off, 1=On

Master/Slave Setting		
S1	S4	Gateway As:
0000	0000	Slave
1000	0000	Master

Gateway Address Setting	
S3	Gateway Address:
10000001	1
01000001	2
11000001	3
00100001	4

For gateway address's 5-8 see p73



(657222) Commissioning Notes & Wiring Diagram

This diagram is for models pre 2022 and R410a models.

1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.
2. Change mode 10 value to 01 via AC wall controller.
3. If AC wall controller is not going to be used after commissioning, change mode 00 value to 01 via AC wall controller. Then remove the AC wall controller.

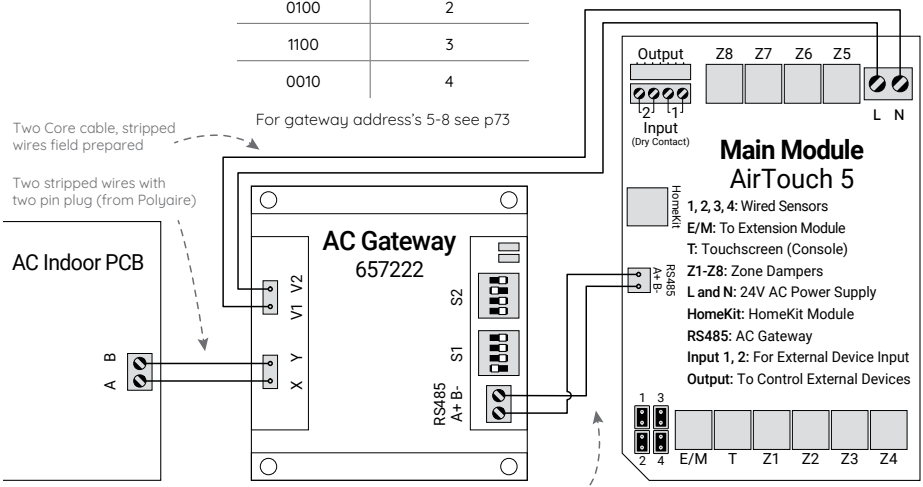
Note: 0=Off, 1=On

Gateway ID Setting	
S2	ID
0010	Braemar/Gree

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

This diagram is for models pre 2022 and R410a models.

For gateway address's 5-8 see p73



(657222) R32 Commissioning Notes & Wiring Diagram

This diagram is for models post 2021 and R32 models.

1. Follow Gree Wall Controller instructions to Set Address Mode to 01 and Remote Control Address to 001.
2. Press Menu/OK to save and exit.
3. If AC Wall Controller is not going to be used after commissioning, change mode 00 value to 01 via AC Wall Controller.

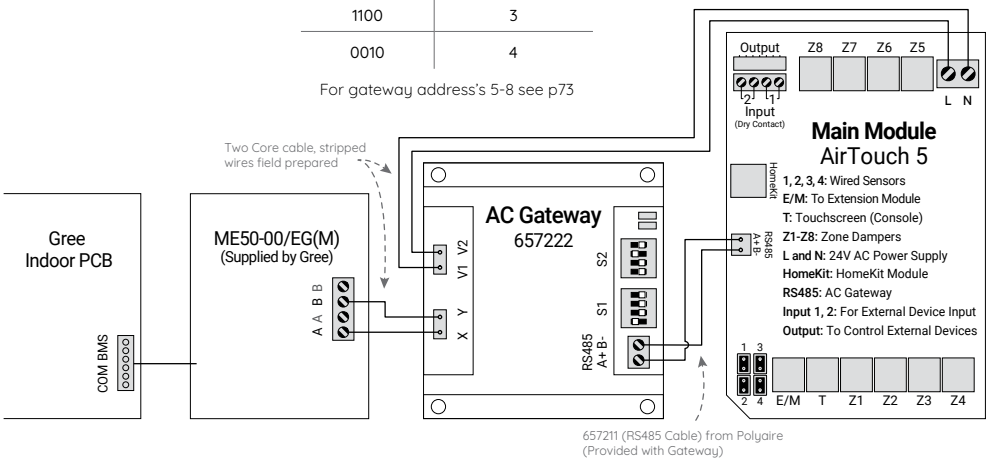
Note: 0=Off, 1=On

Gateway ID Setting	
S2	ID
0010	Braemar/Gree

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73

This diagram is for models post 2021 and R32 models.



(657222) VRF Commissioning Notes & Wiring Diagram

Each gateway will need a ME31-33/EH1(M) interface board from Gree/Braemar for an indoor unit.
By default, the ME31 board is set to Master and the Gree/Braemar standard wall controller XK46 wall controller is not to be connected.
The ME31 board is connected to the H1 and H2 terminals where the standard wall controller is connected.

1. Wire the AirTouch, gateway, interface board and indoor PCB as shown.

2. If the AC wall controller and the ME31-33EH1(M) interface board are to be connected together, the wall controller is set as Master and the interface board is set as Slave by setting position 1 of S3 to On (1) on the ME31-33EH1(M) interface board.

3. Set 657222 switches as right.

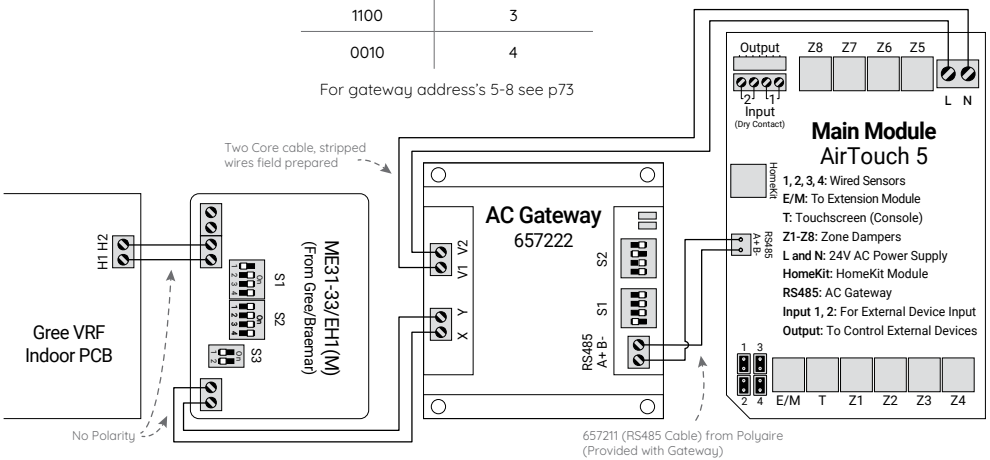
Note: 0=Off, 1=On

Gateway ID Setting	
S2	ID
0110	Braemar/Gree VRF

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73

ME31-33/EH1(M) Switch Settings		
S1	S2	S3
0111	1111	00 Master
		10 Slave



(657222) Commissioning Notes & Wiring Diagram

1. Wire AirTouch 5, gateway and AC indoor as per diagram below and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.

2. Check the temperature compensation value setting (SW6 switch) on the indoor PCB and make sure its value is set to EEPROM DEFAULT as per the instructions on the wiring label at the back of the electrical box cover.

3. In default, AC will use its own return air sensor as control sensor. Installers can set the AC control sensor to an AirTouch 5 sensor by going to **Settings>Installer>AC Setup** on the AirTouch 5 console.

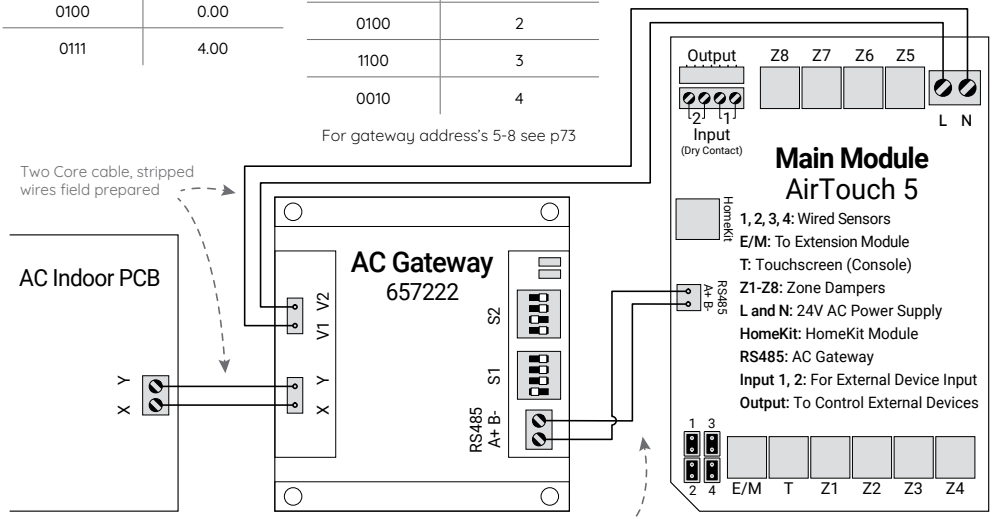
4. If the sensor on the AC wall controller is used for AC control (Follow Me feature on the AC wall controller), please: Press the Follow Me button on the wall controller to activate Follow Me.
   The displayed value for home temperature will be the measured temperature where the AC wall controller installed.

Note: 0=Off, 1=On

Heat Mode Compensation Setting	
S2	Value
0100	0.00
0111	4.00

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73



(657222) Commissioning Notes & Wiring Diagram

1. Wire AirTouch, gateway, YCJ-A002 (supplied by Haier) and AC indoor as per diagram. Make sure all wires are connected properly.
2. Set the dipswitch settings on the YCJ-A002 and the gateway as shown on the drawing as required.
3. In default, AC will use its own return air sensor as control sensor. Installers can set the AC control thermistor to an AirTouch 5 sensor by going to **Settings>Installer>AC Setup** on the AirTouch console.

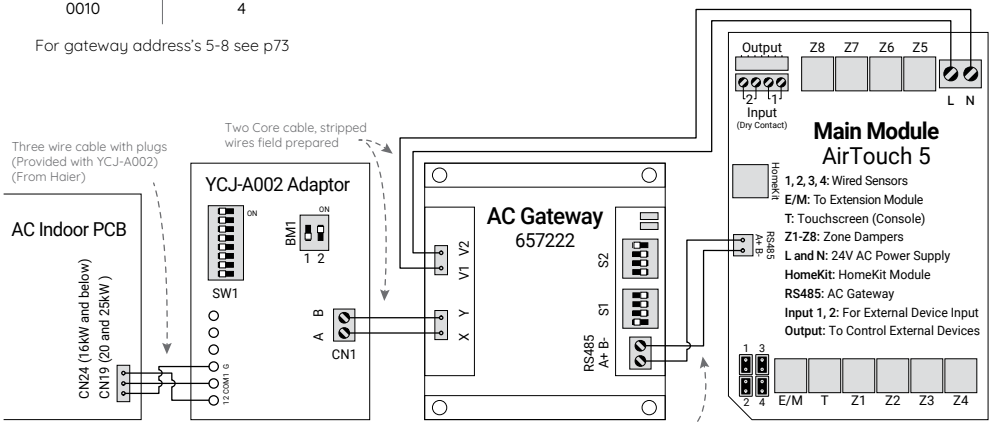
Note: 0=Off, 1=On

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73

YCJ-A002 Adaptor	
SW1	BM1
00000000	01

Gateway ID Setting	
S2	ID
0001	Haier



(657252) Commissioning Notes & Wiring Diagram

Wiring for ActronAir ICUNO-MOD interface board for outdoor. Purchased from ActronAir.

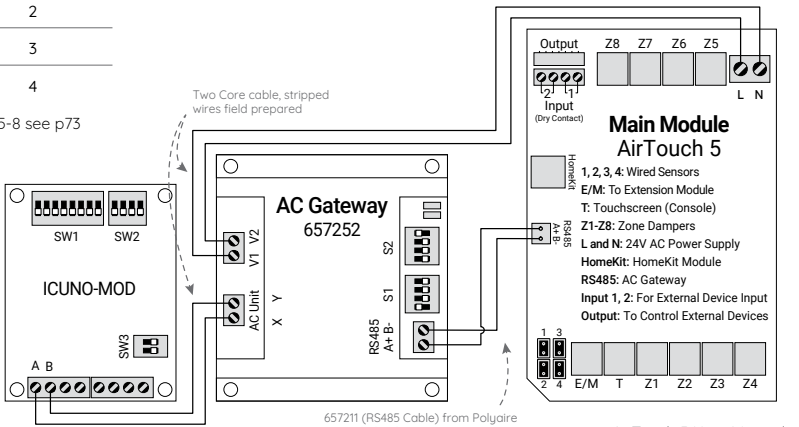
Connect the ActronAir Interface Board to the AC indoor as per ActronAir's instructions

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

Gateway ID Setting
S2
0001

ICUNO-MOD Switch Settings		
SW1	SW2	SW3
00000000	0000	00

For gateway address's 5-8 see p73



Note: 0=Off, 1=On

(657252) Commissioning Notes & Wiring Diagram

Wiring for ActronAir ICMIB-MOD interface board for indoor. Purchased from ActronAir.

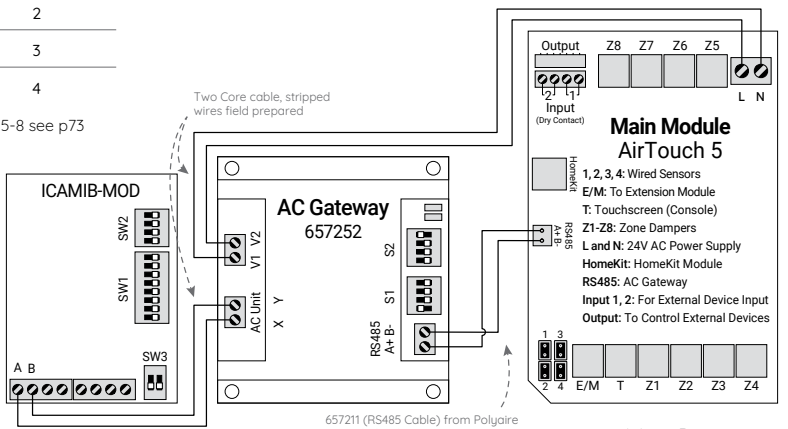
Connect the ActronAir Interface Board to the AC indoor as per ActronAir's instructions

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73

Gateway ID Setting
S2
0001

ICAMIB-MOD Switch Settings		
SW1	SW2	SW3
00000000	0000	00



Note: 0=Off, 1=On

NASA (657229) Commissioning Notes & Wiring Diagram

NOTE: This gateway will only work with units which have NASA protocol.
Samsung wall controller cannot be used at the same time.

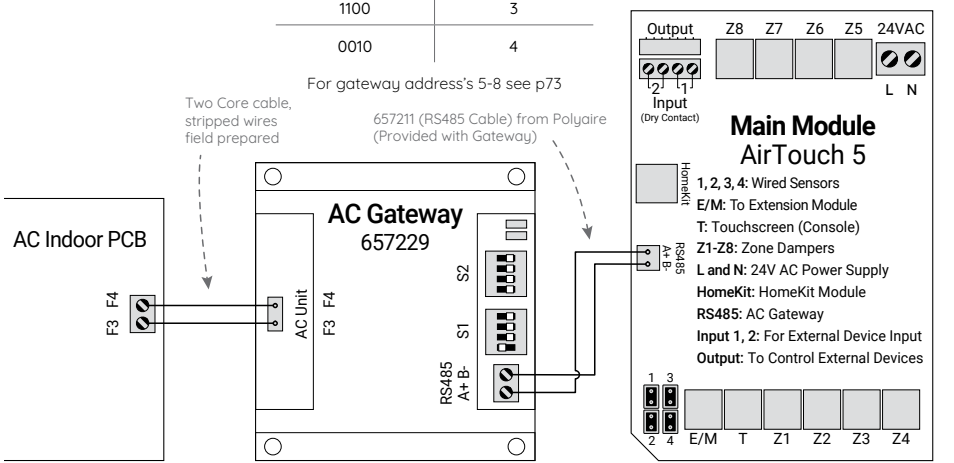
1. Wire AirTouch, gateway and AC indoor as per diagram and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.
2. Initialise the AC Unit. If AirTouch 5 sensors are used for AC temperature control:
   - Settings on AirTouch 5 console: Go to Settings>Installer>AC Setup and select the control sensor appropriate Control Sensor.
   - Settings from the Samsung wall controller: Go to Installation/Service Modes by pressing and holding ESC and Set buttons together, find Main Menu 1, Submenu 2, and then set Data bit 1 to 1. After the setting, remove the Samsung wall controller and use the gateway only.
   - Restart the AC and gateway first and then power up AirTouch. Or power them up at the same time.

Note: 0=Off, 1=On

Samsung wall controller cannot be used with the gateway at the same time

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

For gateway address's 5-8 see p73



No-NASA (657217) Commissioning Notes & Wiring Diagram

NOTE: This gateway will only work with units which have Non-NASA protocol.

1. Wire AirTouch 5, gateway and AC indoor as per diagram and leave the dipswitches on the gateway at their default position. Make sure all wires are connected properly.
2. Initialise the AC Unit with Samsung AC wall controller connected.
3. If AirTouch 5 sensors are used for AC temperature control:
    - Settings on AirTouch 5 console: Go to Settings>Installer>AC Setup and select the control sensor appropriate Control Sensor.
    - Settings on the Samsung wall controller: Go to Installation/Service Modes by pressing and holding ESC and Set buttons together, find Main Menu 1, Submenu 2, and then set Data bit 1 to 1.
    - Restart the AC and gateway first and then power up AirTouch. Or power them up at the same time.

There are two versions of the gateway. They are interchangeable but please follow the wiring as per below:

No-NASA New Version

Note: 0=Off, 1=On

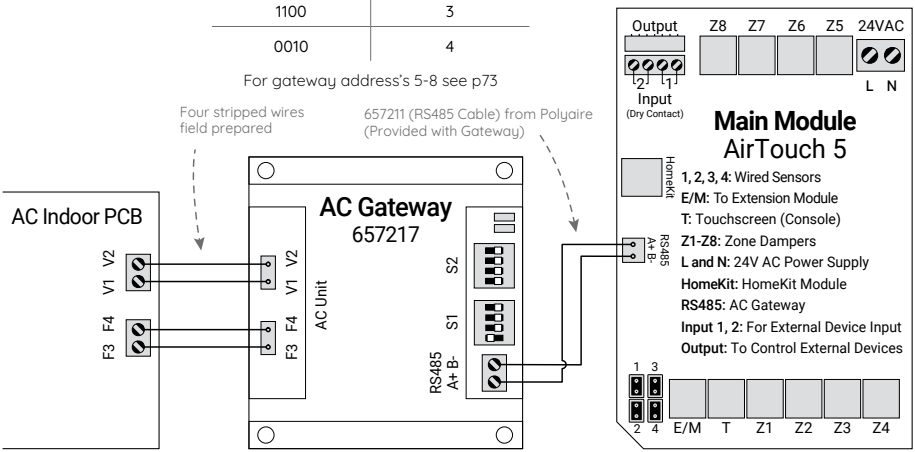
This applies to gateways made in China

Master/Slave Setting	
S2	Gateway As:
0000	Slave
1000	Master

Gateway Address Setting	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4

NOTE: If Samsung wall controller is used with the gateway, the Samsung wall controller has to be set to Master and the gateway has to be set to Slave by switching position 4 of S2 to 0 (Off). In this situation AirTouch 5 sensors cannot be used for AC Temperature Control.

For gateway address's 5-8 see p73



No-NASA Old Version

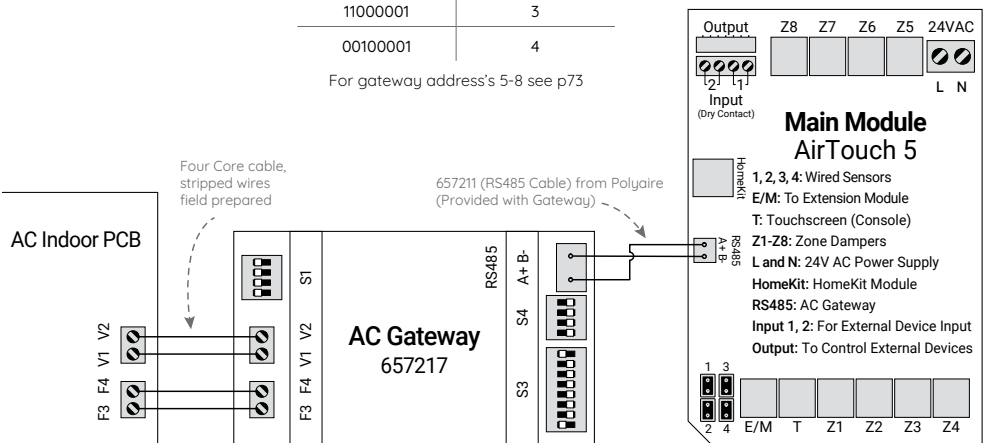
Note: 0=Off, 1=On

This applies to gateways made in Spain

Master/Slave Setting		
S1	S4	Gateway As:
0000	0000	Slave
1000	0000	Master

Gateway Address Setting	
S3	Gateway Address:
10000001	1
01000001	2
11000001	3
00100001	4

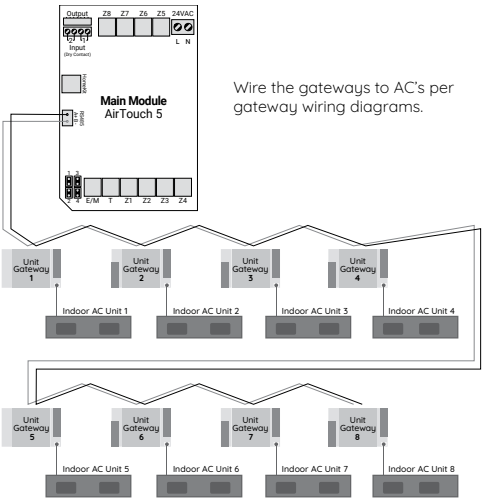
For gateway address's 5-8 see p73



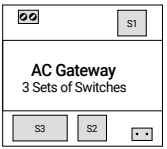
Multiple Gateways

Note: 0=Off, 1=On, x=On or Off

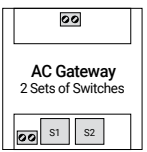
If AirTouch 5 is to control more than one AC unit, gateways for multiple AC's can be joined in serial as shown in the wiring below. Each gateway will be set with a unique gateway address and as required for the AC connected.



Wire the gateways to AC's per gateway wiring diagrams.



Gateway With 3 Sets of Switches	
S3	Gateway Address:
1000xxxx	1
0100xxxx	2
1100xxxx	3
0010xxxx	4
1010xxxx	5
0110xxxx	6
1110xxxx	7
0001xxxx	8



Gateway With 2 Sets of Switches	
S1	Gateway Address:
1000	1
0100	2
1100	3
0010	4
1010	5
0110	6
1110	7
0001	8

7. Downloading AirTouch 5 on Mobile

Install the AirTouch 5 App through the Apple App Store or Google Play Store.

After downloading the application, follow the prompts to link to your AirTouch console.

AirTouch 5 is compatible with:

iOS 8.0 and above

Android 4.0.3 and above

Download on the App Store

GET IT ON Google Play

Click Here
To download the AirTouch 5 app now.

NOTE: If a mobile device is connected to the same WiFi network as your AirTouch 5, the app will automatically direct you to the control interface. Alternatively, if you are unable to access the control interface, you will be prompted for the AirTouch ID and password to continue. The AirTouch ID can be found in the bottom of the Quick Menu on the console.

When away from home the app will connect to AirTouch using your phones' cellular connection.

8. Troubleshooting

Problem	Solution
Error Code FFFF or FFFC	Gateway is connected but the gateway switch settings are incorrect.
Error Code FFFE	Gateway is lost. Check the wiring and power supply to the indoor unit or and/or gateway. If wiring is correct it may indicate a faulty gateway or indoor PCB.
Dampers do not respond when turned on or off	Check if LEDs on the main module are lit up for relevant zones when the zone dampers are being turned On/Off. If Green/Red LEDs are not activated for the respective zone, the main module may be faulty, replace it. If there is response, there might be a faulty cable and the cable would have to be replaced. If the zone is still non-functional then there might be a faulty damper motor. Check if the cable from console to the main control module is faulty. If it is a faulty cable, then replace the cable. Check the Zoning screen in installer settings and find out if the dampers have been correctly assigned to their corresponding zones and have been turned On/Off in Zoning section.

Any other error code is an AC manufacture error code indicating fault with the AC system. Contact the AC manufacturer.

Specifications

Electrical Requirements	
Power supply:	24V AC ±10%
Line frequency:	50 Hz

Environmental Requirements	
Operating Temperature:	0°C to 60°C
Altitude:	0 to 2000 meters
Operating relative humidity:	10% to 80%

Avoid static electricity hazards
Avoid electromagnetic radiation sources
Avoid dust contamination
Avoid highly corrosive environments

Zone Output	
Output voltage:	24VAC, 50Hz
Current:	200mA (1 damper motor)

Transformer	
Input Voltage:	240VAC, 50Hz
Output Voltage:	24VAC, 50Hz
Wattage:	40W
Supply Air Sensor	NTC type, 10 kΩ at 25°C
Battery (Wireless Sensor)	3.0V, CR2450
Fuse	Dimension 5x20 mm, Fast-Acting 2A, 250V

1300 980 656

airtouch5

Liability and Disclaimer

All specifications and procedures are correct at time of publication, but are subject to change without notice. Please read the instructions before installing this Zone Control System. Polyaire Pty Ltd does not accept any responsibility for loss or damage that may occur as a result of the incorrect installation or operation of this AirTouch Control System.

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