

SMT-775 Inspire Touch User and Installer Manual



Version 1

Version History

Version 1 October 2020 Initial Release

Welcome

Thank you for purchasing the "Inspire Touch" thermostat from Smart Temp.

This product has been built to the highest standard to ensure your home comfort levels are maintained as simply and efficiently as possible.

Please take the time to read this manual so that you can gain maximum benefit from this advanced product.

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Introduction

The Inspire Touch is a home comfort control system designed to be simple to use and still provide powerful and energy efficient climate control. The Inspire Touch offers many advanced features to give greater control of home (or office) comfort than a conventional home thermostat could achieve. The Inspire Touch is the next generation of home comfort control systems.

Some of the Inspire Touch features include

- Multiple wall controllers up to a maximum of 4 wall controller can be used. All wall controllers are networked so that a change made on any one wall controller will be updated to all others automatically.
- Temperature control climate zoning up to a maximum of 9 zones can be installed. Set individual times and temperatures into every zone if required or run zones manually if this is your preference.
- Connection to the internet for remote access.
- Digital Photo Frame function. Use the wall controllers to display pictures if desired.

The Inspire Touch will be configured by your installer to meet the capability of your heating and cooling system and to offer you the best performance from this system. As such, not all features and functions detailed in this manual may be available with your Inspire Touch.

You should discuss the availability and suitability of various options available for your Inspire Touch with your installer or with your Smart Temp or authorised distributor.

I encourage you to take the time and read this manual so that you may benefit from many innovative features and functions found in your Inspire Touch offers.

Setting up your Thermostat

Your Inspire Touch is a remarkably easy controller to use. Its touch interface and graphical display will guide you as you set up and use the Inspire Touch to control your comfort levels.

Navigating through Menus

Icons and menus are used to prompt you through the various settings and options within the Inspire Touch. These functions are described below.

Icons, Buttons & symbols

Icons

Taping an icon will take you to a new page where you may have several options to select from and or adjust, or you may simply be given some information.

In many cases if you had made a change to a setting - you must press "Done" to save these changes before you exit or the changes you have just made will be lost.

To exit one of these windows select Exit or the Back icon.

Note If the Inspire Touch screen has not been touched within 90 seconds, it will automatically default to the Home Screen. You may lose any changes you have made if you have not pressed "Done" before the Inspire Touch auto exits.

Buttons

A button most time performs a specific function, such as "Done" that saves a change. A button can also toggle something on or off.

Changing options

In many of the Inspire Touch menus you will see an option shown in blue, with the currently selected value shown next to it in red, such as "Display C/F C". Touching that line will select that option and highlight the value to be changed in in yellow. You are then able to alter the highlighted option using the up and down buttons. In this example, change the Inspire Touch temperature display from degree Celsius format to degree Fahrenheit or visa versa.

Understanding the Home Screen

Whenever the Inspire Touch is left idle it will return to the Home Screen. From here you have access to all of the features and functions that your Inspire Touch offers simply by touching one of your short cut icons shown on the left edge of the Home screen or touching the "More" icon and having access to all the Inspire Touchs Icons.

Your home screen can be customised in many ways to suit your lifestyle or décor. For example, the wallpaper (Image shown behind the time, temperature, and other



icons) can be selected from a library of pre- installed images. Your installer can also load additional images should you wish.

Your Inspire Touch can be set to act as a digital photo frame when idle, simply touching the screen will return the Inspire Touch to the standard Home screen where you are then able to make selections. (Note - there may be a few seconds delay if the Inspire Touch is currently arranging image files ready for display.)

Items such as backlight levels as well as many other parameters can be set to tailor your Inspire Touch to your needs.

Status Bar

The lower section of the Home screen shows the status bar. In this bar the date is shown along with other symbols that provide feedback about the Inspire Touch operation.

Time & Date

The Inspire Touch will show the current time and date. This can be set manually in the settings menu or set via the internet based on your location if you have your Inspire Touch Wi-Fi network enabled and active.



Wi-Fi Icon

Tapping this icon will open a page that will permit you to setup and confirm the status of the Inspire Touch Wifi



Heating

If your Inspire Touch has called for you AC system to provided warmth, the flame symbol will be shown.



Cooling

If your Inspire Touch has called for you AC system to provided cooling, the snowflake symbol will be shown.



Far

If your Inspire Touch has called for you AC system fan to run (without the need for heating or cooling), the fan symbol will be shown.



Error

The error icon will be shown whenever the Inspire Touch detects an internal or system error. Touching the Error icon when it appears will open a window detailing the issue and, in most cases, suggest a method to solve the problem.

Icons

Icons provide you with a simple method to change between screens of data or functions. Taping a Icon on the left side of the screen will open the function associated with that icon.



Mode Icon

Used to select the <u>master</u> Inspire Touch operational mode and fan control. See "selecting your Mode" on page 8



Schedule Icon

Used to set your desired temperatures and program your daily events. (Only shown if Zoning is disabled). See "setting your temperatures on page 9.



Zone Icon

When zoning is enabled this icon will permit you to access the individual zones setting and status window. (only shown when Zoning is enabled) See "Settings Zones" on page 11.



History Icon

Tapping this icon will permit you to view a moving 7-day history of the heating & cooling set points as well as the room temperature. If zoning is enabled, you will be able to view the history for all fitted zones. Note – If multiple wall controller are used the History Icon will only available on the "Master" wall controller. (See page 14 for more information on this function.)



Holiday icon

The Inspire Touch can be set to maintain an alternate comfort level whilst away on holidays. (See "setting Holidays" on page 14 of this manual)



Info Icon

This icon will provide you with information about your system as well as the contact details of your installer.



Settings Icon

When you need make changes about the way your Inspire Touch looks and operates tap the setting icon to open the settings menu. The functions in this menu are described on page 14 of this manual.



Installer Icon

The Inspire Touch can control many different types of Air Conditioning systems and as such offers many options for the installer. Adjusting settings in this menu requires knowledge of the air conditioning system functions and as such a security PIN is needed to protect the AC system and to prevent "uninformed" settings changes. It is highly recommended that you do not make changes in this menu unless you know what impact these changes will make on system performance and function. Information on the installer options are shown on page 16 of this manual.

Docked Icons



The Inspire Touch Home Screen has 5 "docked" shortcut icons on the left side of the Home Screen. You can select your preferred icons that you wish to occupy these positions. The "More" icon position is locked and cannot be moved.

Should you wish to place your preferred icons on the Home Screen simply touch the "More" icon to take you to the "More" screen. Press

and hold the icon you wish to dock on the Home screen for 5 seconds and a small window will pop up showing the 4 currently docked Home screen icons. Simply touch the icon you wish to replace with the selected icon.

Masters and Slaves

Your Inspire Touch is a great deal more than a simple single home or office wall thermostat. Your Inspire Touch system can comprise of up to 4 wall controllers that all communicating with each other as well as with the nine temperature-controlled zones.

With the Inspire Touch system you can adjust any zones settings from any of the 4 wall controllers. For example, check the nursery temperature from the master bedroom, or turn off the kid's upstairs rumpus area off from the kitchen.



As powerful as the Inspire Touch can be, it is an amazingly simple system to operate. It offers Intuitive functions with logical layout.

Setting your comfort Levels

The Inspire Touch base function is comfort level control. It does this by comparing the current room temperature with your desired target (or set) temperature. It then intelligently commands the AC system under its control to supply warmed or cooled air into the Home or office and to the appropriate arrears of your home or office.

The Inspire Touch can maintain a single set temperature or automatically vary the temperature throughout the day and night to match your lifestyle if you enable scheduling.

Selecting your Mode

Tap the MODE icon to change your control modes.



Your Inspire Touch can operate in heating only mode, cooling only mode and auto season mode. Additionally, the Inspire Touch can also control a single or multispeed fan system in several ways.

Please note - It is important that you select the most appropriate mode for your needs. For example, if your Inspire Touch mode is set to heat only mode and your home/office or one of your zones require cooling then the Inspire Touch will not request cooling for that zone regardless of the zones cool set temperature. In heat only mode you have limited the Inspire Touch control ability to heating only — No cooling is provided and the "Cooling Wait" icon will be shown. This is also true if your select cooling only mode -your Inspire Touch will not provide heat to your home or office.

Off

There will be NO heating or cooling in your home or office - even if the room temperature rises or falls above desired levels. Holiday schedules will not be used.

Heating Only mode

In heating only mode, your Inspire Touch will control your AC system to warm your home or office. It will not cool your home or office regardless of how high your home or office temperature becomes.

Cooling Only mode

In cooling only mode, your Inspire Touch will control your AC system to cool your home or office. It will not heat your home or office regardless of low your home or office temperature becomes.

Auto Season Mode

In Auto mode, your Inspire Touch will decide whether to activate your heating and cooling system to maintain your home or office to your preferred comfort level.

Fan Auto

Fan Auto mode will intelligently control your AC fan in the best way to maintain your desired home comfort levels. It is highly recommended you leave your fan in Auto Fan Mode. The Fan will turn on when needed and off again automatically when not needed.

Fan Continuous

If you select continuous fan, the AC fan will not stop but continue to run endlessly provided the Inspire Touch is NOT supplying warm or cooled air to satisfy comfort levels. This can be good to improve the "stuffiness" of your home or office but may conflict with any zone control settings you may have.

Fan Speed (If Fitted)

You can manually select a fan speed or, let the Inspire Touch choose the most appropriate fan speed for you. It is highly recommended that you leave this setting in Auto speed.

Setting your Temperatures (If Zoning is NOT enabled).



Tapping the Program icon will open the programming window shown here. In this window you

are able set your comfort levels as well as make other adjustments as shown below.

Temperature

This large display in the centre of this window displays the current temperature and the mode -

temperature and the mode - whether the temperature is Ok or being heated or cooled.





Heat and Cool set point

Tap the Heat up/down buttons to adjust the current

heat and cool set points to your preferred value. Note, the heat and cool set point push each other apart to maintain a pre-set separation. At no time will the Inspire Touch permit you to set the heat set point above the cool set point. The Heat set point will always be lower than the cool set point.

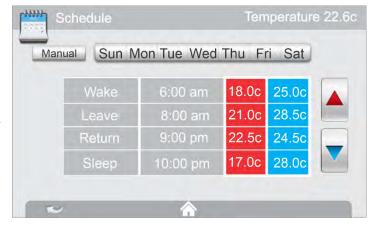
When you adjust your heating or cooling set temperature an option box will open where you can choose how long you wish the new set temperatures to apply for (if programming is enabled) or how long you would like the system to continue to control at these temperatures before automatically shutting down (if manual mode is selected). Simply tap the desired override period within 4 seconds and this will be set. If you fail to make a section within 4 seconds the Inspire Touch will automatically choose 2 hours by default.

You are given the option to cancel this override at any time should you wish by pressing the "Cancel Override" button.

Setting your Schedule

Your Inspire Touch can automatically alter the set temperatures to match your life pattern. In this way the Inspire Touch can turn your AC system down or off while sleeping and bring it back on at the end of the night in preparation for your days activities.

Tap the schedule button and the Inspire Touch will show you the schedule window.



As selected by your installer your Inspire Touch may have between 2 to 6 daily schedules. The schedule names are also able to be customised by your installer. The picture above is a typical example.

Tap the day to select the. You then select the Heat or cool set point or the time you wish to adjust, again these will be highlighted. Use the Up/Down button to make these adjustments then press" Done" to save changes.

(Tip – double tapping a temperature in the schedule window will toggle it between the previously set temperature value and OFF, meaning that for that scheduled period heating or cooling will not run.

If a zone does not require all the events you are able to disable an event period just for that zone. For example, there may be 4 events set (Wake, Leave, Return, Sleep) and a zone may only want to be on between 5pm and 7 pm requiring only two events (Return and Sleep). Press and Hold the event that you do not wish to use, such as the wake event and its name will turn red and the heat and cool set points will disappear. This event is no longer used and will be skipped.

Smart Fan (Commercial)

If enabled by the installer your Inspire Touch you can also program the fan mode (fan Auto or Fan On and if enabled the fan speed.)

If zoning is not enabled.

Tap the schedule icon to enter the schedule settings window. If commercial fan is enabled you will see an extra option, that is the option to set the fan mode and speed for each of the daily events. Set your fan mode and speed as you would set your desired temperature for each event.

At any time, you are permitted to tap the "Mode" icon and change fan modes however at the conclusion of a Smart Fan event, your Inspire Touch will automatically reset your fan mode to Auto Fan.

If Zoning is enabled

As the fan speed and mode applies to the HVAC system, you are unable to select different fan modes and fan speeds for each individual zone. Therefore, only zone 1 will permit you to program the Smart Fan and the zone 1 settings will apply to all zones that the installer has selected in the zone setup menu.

After you have made your changes press "Done" to save changes or back to exit without saving changes.

Manual Mode

By selecting "Manual" you will disable programming from your thermostat. Your thermostat will maintain your set temperatures until you manually adjust them to a new value.



To enable manual mode for your Inspire Touch (or just one zone if zoning is enabled – Note manual mode is only available to zones fitted with temperature sensors) press the "Manual" button from the schedule window. A confirmation box will pop up to ask if you are sure you wish to disable programming. Select "YES" to proceed or "BACK" to return to the previous window.

In "manual mode" you simply set your desired heating and cooling temperatures. These are maintained until you alter them manually in the future. You are also able to set an "Auto Off" timer should you wish with manual mode by taping a temperature select button. A window will open asking how long you wish to maintain this temperature before automatically turning off. This works in a similar way to the override timer set previously.

Zoning



The zone icon is only visible if zoning is enabled on your Inspire Touch. The Zone icon replaces the schedule icon.

Zoning is the ability to use one single AC system and then break that single system up into a family of virtual smaller AC systems - one for each area or "Zone" of your home or office.

Each zone can have its own temperature sensor, its own set (or desired) temperatures and its own schedule if desired. You can even have a mix of programmable and manual zones should you wish.

If you think of zoning your home heating and cooling in the same way you consider lighting your home or office. You don't have one single light switch in your home that turns every light on or off, you turn lights on or off in the areas of your home as you need them. This same principal applies to temperature zoning.

Depending on how your Inspire Touch has been configured by your installer you have the following options.

Non-adjustable Zone Control.

Primarily used in commercial building where a large Air Conditioning system services multiple smaller offices or a large area with varying temperature differentials. In this mode all zones are individually temperature controlled to the main controller desired heating and cooling set temperature. You are not permitted to open or close zones or individually adjust zone temperatures. The Inspire Touch will control all zone dampers and the Air Conditioning system to ensure all zone temperatures are maintained..

Open / Close Zone control.

This mode is identical to the non-adjustable mode described above however in this mode you are permitted to open and close zones, such as when a office maybe empty for some time and therefore air conditioning is not needed in that area.

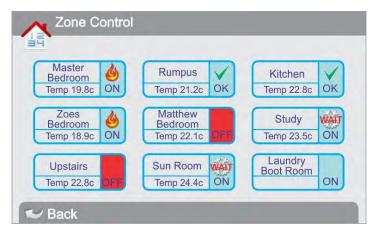
Advanced Zone control.

All zones are completely independent of each other, Zone temperature and scheduling is completely independent and different temperature and times can be set for each zone. Advanced zone control is best thought of as a place where every area had its own AC/system and its own thermostat.

Zone Overview

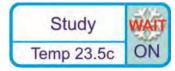
Taping the zone icon opens the Zone window if applicable. In this window you are given an overview of the status of all zones and the ability to adjust individual zone settings if permitted.

In this example you can see that nine zones are fitted, the individual zone temperatures are shown (when the optional zone temperature sensors are fitted) and whether the temperature in that zone is ok (at temperature) or requires heating or requires cooling. You will note that each zone has its custom name, helping identify the zone for another.



Zone Icons & Control

The Zone Icon shown provides you with information about that zone. The zone name (so that you can easily identify that zone). The current Zone Temperature (if a temperature sensor has been fitted to the zone) and the zone status as described below.





This zone has requested and is receiving warmed air.



This zone has requested warm air however the Inspire Touch is waiting before providing heat to this zone.



This zone has requested and is receiving cooled air.



This zone has requested cooled air however the Inspire Touch is waiting before providing cooled air to this zone.



This zone temperature is OK.



This zone is OFF and will not receive conditioned air regardless of the zone temperature.

Zone Temperature Monitoring & Control.

You will see that some zones in the above example show you the zone temperature along with the zone status. Zone 9 in the example above does not show any temperature value as a temperature sensor has not been installed in this Zone. In this case all you are permitted to do is open the Zone (On) or closed the Zone (Off). The zone when open will receive warmed or cooled from the AC system regardless of the temperature in that zone.

"Wait" - Zone Message explained

Your AC system can supply either warmed air <u>or</u> cooled air at any given time. It cannot supply <u>both</u> warmed air AND cooled air <u>at the same time</u> to different zones. The Inspire Touch knows this and will supply warmed air to the zones requiring it and the zone requesting cooled air must "wait" for the other zones requiring warmed air to be satisfied. Likewise, should the Inspire Touch be currently providing cooled air, the zones requesting warmed air must wait.

The Inspire Touch also knows that a large AC system can be damaged when it is turned on without the proper air flow being available to it. So, if only a small part of your home or office is calling for heating or cooling the Inspire Touch my wait until there more outlets demanding conditioned air before starting the AC system. In this case it will wait for more zones to call.

Additionally, the Inspire Touch knows how much heating or cooling capacity is available in your AC system and whether there is enough to satisfy your home or office. If the demand on the AC system is too great, the Inspire Touch will make zones of lower importance wait for heating or cooling while it satisfies the zones that are more important. Again, it will ask these less important zones to wait.

Lastly, if a zone is requiring heating for example but the Inspire Touch mode is set to Cooling only (or OFF), then the zone requiring heating will wait for you to enable the heating mode. (See modes on page 8).

Naming the zones

To make the Inspire Touch easier to use, you can give each zones a unique name. In the zone control window



simply press and hold the zone you wish to name. The display will change showing a keyboard permitting you to edit or change the zone name. Tap done to save changes.

The Zone Setting window

(IF Zone temperature sensor fitted). This looks similar and functions in an identical manner to the temperature window shown on page 9 of the manual. All the same features and functions apply. The Inspire Touch simply provides those same tools for each of your zones fitted with a temperature sensor, including scheduling, manual mode and temperature override etc.

Zone mode

Tap this to switch between Zone Off or On.

Zone OFF This zone will not receive conditioned air.

Zone ON

You will be given the option to set a desired zone temperature and apply a schedule (if the zone is fitted with a temperature sensor). This zone will now control the AC system and air flow to this zone to maintain the zone heat and cool set point. Zone ON is only shown if a temperature sensor is fitted for this zone

Copy Button

Once you have programmed a zone with your scheduled time and temperatures the Inspire Touch permits you to "copy" that schedule to other zones. In this way, you can easily program all 9 zones within a few moments.

Copy To

Simply select "Copy To" to take the current day or zone you have just programmed (Kitchen in the example



shown with black text) and copy the Kitchen settings to the zones you require. Tap each zone to select, they will highlight green and press Done to begin the copy process.

Copy From

Rather than set up a zone schedule for a zone from scratch, simply select the copy button from within the zone, then copy from and the zone you wish to copy. Press done.

History Button

Touch this icon to open the history window. This provides a 7-day running history of the set temperature and the room temperature. If zoning is enabled you are provided with data for each zone Using the Prev or Next button enables you to navigate through the various zones temperature log.



Tapping the graph on any zone will permit you to zoon onto an individual day's data.

Setting Holidays



When you expect to be away from your home or office for some time, you may want to enable the

"holiday" function.

Tap the "Holidays" Icon and the "Holiday" window will open.

Simply select the desired heating and cooling set temperature you wish to maintain while you are away as well as he time and date of your expected



return. Then simply select ON. The Inspire Touch will open all zones and control your heating and cooling system to maintain your desired temperatures as measured at wall controller 1.

If holiday mode is active - the Main screen will show "Holidays" in the status bar.

Fresh Air

If your home or office has outside air economy cycle option fitted, the Inspire Touch will automatically introduce outside air into your home or office each day for the specified amount of time. It will do this in blocks of 15 minutes or more. So if you select 30 minutes of fresh air per day the Inspire Touch will introduce 15 minutes of air in the morning and 15 minutes of fresh air in the afternoon.

Active ventilation

If selected, the Inspire Touch will start up and run your AC fan for the specified period of time to circulate your indoor air to maintain freshness. It will do this in blocks of 15 minutes or more. So if you select 30 minutes of active ventilation per day the Inspire Touch will introduce 15 minutes of air in the morning and 15 minutes of fresh air in the afternoon.



User Settings

The Inspire Touch offers a settings menu that permits adjustment to the way your Inspire Touch looks and operates. A description of each function is provided below.



Speaker

Tapping the Speaker icon toggles the audible beeper on & off.

Clock



Tap the clock Icon to open the Time & Date settings window. Simple use the Up/Down buttons to set the Inspire Touch to the correct date and time or check the "Use Internet time" box if connected to a Wi-Fi network with internet access.



Brush Icon.

Tapping the Brush disables the touch screen for 30 seconds to permit you to wipe the screen without effecting the Inspire Touch operation or settings.



Display

Tap the display Icon to enter the Display settings window. In this window you have 3 tabs across the bottom of the screen. Tap the tap to revel the options you wish to adjust.

Wallpaper Tab

There are many wall paper options that you can choose that sit as a background behind the main screen icons. Select the wall paper you wish to use and select "Preview" to see the wallpaper or "Done" to use the currently selected wallpaper. Once you are happy with your selection press "Exit" to save your changes and exit the window.

Options Tab

The options tab permits you to adjust the following by touching the value you wish to change, it will highlight yellow. You must press "Done" to save changes.

Date format

Sets the display format for the date - Your options are DD/MM/YY or YY/MM/DD

Time Format

Sets the display format for the time - Your options are AM/PM or 24 hours

Mood Lighting Level

There are a number of small coloured lights on the rear of the Inspire Touch that will cast a glow on the wall in dimly lit rooms that are designed to improve the visual appearance of the Inspire Touch. Your options are "Off, Always Bright, Day Only or Night Only.

Mood lighting Pattern.

If mood lighting is enabled you can select the way it operates. Selecting "Random" will slowly cycle through the colour spectrum. Selecting "System Mode" will cause the Lights to glow red when heating, blue when cooling and green when the room (zones) are ok.

Digital photo frame.

The Inspire Touch is fitted with a SD card to which you can load "JPG" images and have the Inspire Touch display these images when idol (Not being touched). Note - As the Inspire Touch is primarily a thermostat most of its computing power is dedicated to comfort control, therefore if using the digital photo frame function the Image size must be 800×480 pixel. (There are many free programs are available on the internet that can re-size JPG images). These JPG images should be loaded into the root directory of the SD card.

As the Inspire Touch works to de-compress and load images the Inspire Touch will display a "please wait" message for approximately 15 seconds before the next image loads. During this time, the touch function is disabled.

Transition time

The Transition time sets the duration that each image is shown before being replaced by the next image on the SD card.

Backlight

The Inspire Touch is fitted with a light sensor that can automatically control the backlight level based on ambient light levels in the room. These values can be found in the display menu.

Day Active level	The backlight level when the LCD is touched when the room is lit.
Day Inactive level	The backlight level when the LCD has not been touched room is lit.
Night Active level	The backlight level when the LCD is touched when the room is dark.
Night Inactive level	The backlight level when the LCD has not been touched room is dark.

Connecting your Inspire Touch to your Wi-Fi Network



Your Inspire Touch system is fitted with a Wi-Fi radio to permit you to connect your Inspire Touch to your Wi-Fi network. This will provide you with the ability to control most of the Inspire Touch functions from anywhere in the world where you have internet access.

The steps for connecting your Inspire Touch to your wi-fi network

On the Inspire Touch Wall controller

- 1 Using the Inspire Touch screen tap the "More" icon on the main screen.
- 2 Tap the "Settings" icon
- 3 Tap the Wi-fi tab.
- 4 Ensure the On/OFF slider is ON.
- 5 Press Scan to scan for all available Wi-Fi networks in range of your Inspire Touch.
- 6 Select your network and enter your network password and press done.
- 7 Your Inspire Touch will try to connect to your selected local Wi-Fi network. (*This may take a few minutes please be patient*)
- If connected to your Wi-Fi successfully you will see a solid" Wi-Fi" symbol next to your selected network.
- Tap the Network name, a window will open showing all network settings. Ensure this window is displaying IP addressed and subnet masks confirming that your Inspire Touch has successfully paired with your Wi-Fi network.
- At the bottom of this network screen you will see a hidden "Pair Key". Tap the 4 "astricts" and note the 3 digit PIN shown. (you may be prompted to enter a PIN to see the PIN, if so the factory default PIN is "1234". (this can be changed to improve security)).

On Your Inspire Touch App (Apple and Android)

- Log onto the Apple App store or Android Store and download the Smart Temp "Inspire Touch" App onto your Wi-Fi enabled smart phone or tablet.
- You will need setup a new account by entering a username, email address and password. (The email address is used as it is unique account identifier and not for spamming.) (You will need give the App permission to use your camera)
- 3 Respond to the confirmation email that has been sent to you to confirm the account.
- 4 Open the Smart Temp Inspire Touch App.
- 5 Select "+Add" on the top Right corner of your App
- 6 Select "+Add Device".
- 7 Select "Smart Capture"
- Take a picture of the Inspire Touch Wi-Fi settings screen shown on Step 9 above.
- 9 Enter the 3-digit PIN as shown on Step 10 above. (this will be automatically entered if it was visible when you took the picture.
- 10 It may take a few minutes to Sync all data (zone names, schedules and other settings) to your smart device. Please be patient.

Installer Settings

Caution. The information provided in this section is intended for the use of qualified personal only. Changes made to the Inspire Touch in this section can have a big impact on the AC system performance and life. Do NOT make changes in this section unless you know the impact these changes will have on system operation.

Overview

The Inspire Touch system consists of 2 main components being the Wall Controller and Unit Control Card. Other parts are also needed for the Inspire Touch such as a suitable 24VAC power supply of 2A or more, optional Zone sensors and dampers should you wish to add temperature controller zones to your Inspire Touch.

Unit Control Card

The HVAC unit control card is the hub of the Inspire Touch system. All major components of the Inspire Touch system connect here including the HVAC system itself. Information on specific wiring the Inspire Touch HVAC unit control card to air conditioning systems can be found on page 20 of this manual.

The HVAC unit control card is powered by 24VAC requiring a minimum of 1.5 amp. This can be supplied by a separate power adapter

Unit Control Card Overview 15A 3AG Wall Equipment Controllers Inputs **Assignable** 0-10V Modbus Relays Outputs Ancillary Sensors Zone Dampers Spare & Spill Relay Zone **Temperature** Sensors Zone **Temperature** Sensors

(such as the Smart Temp SZ-PS power supply), the HVAC system itself or any other suitable 24VAC supply that can supply at least 1.5 amp.

Inspire Touch UCC connections		
Terminal	Function	
24 C	24V Ac input common.	
Solid Line	This is NOT used	
24 V	24V AC input – Used to Power the Inspire Touch HVAC card and wall	
	controllers	
Main Relay Common	Voltage applied here is switched back through equipment relays.	
(fused 15A)	Consider this a standard thermostat "R" Terminal	
G1	Low fan speed (Used in single fan speed mode)	
G2	Medium fan speed (NOT used in single fan speed mode)	
G3	High fan speed (NOT used in single fan speed mode)	
W1 (NO)	Heat or Reversing valve terminal Heat valve drive open	
W1 (NC)	Heat valve drive closed	
W2 /Aux	Aux / Emergency heat.	
Y1 (NO)	Compressor 1 or cooling terminal Cool valve drive open	
Y1 (NC)	Cool valve drive closed	
Y2	Compressor 2 or cooling 2 terminal	
Y3	Compressor 3 or cooling 3 terminal	
Assignable Relay 1 (NO)	Relay has a library of functions. Normally open terminal	
Assignable Relay 1 (NC)	Relay has a library of functions. Normally closed terminal	
Assignable relay 1	Voltage applied here is switch through relay 2 output	
common		
Assignable Relay 2 (NO)	Relay has a library of functions. Normally open terminal	
Assignable Relay 2 (NC)	Relay has a library of functions. Normally closed terminal	
Assignable relay 2	Voltage applied here is switch through relay 2 output	
common		
Sensor 1 Active	Assignable sensor active	
Sensor 1 Common	Assignable sensor common	
Sensor 2 Active	Assignable sensor active	
Sensor 2 Common	Assignable sensor common	
Sensor 3 Active	Assignable sensor active	
Sensor 3 Common	Assignable sensor common	
Analogue output 1 Active	Used as a output for digital scroll capacity control	
Analogue output 1	Analogue output common	
Common		
Analogue output 2 Active	Assignable analogue output	
Analogue output 2	Analogue output common	
Common		
Analogue output 3 Active	Assignable analogue output	
Analogue output 3	Analogue output common`	
Common		
Wall Controller 1	Master / Primary wall controller connection	
Wall Controller 2	First slave wall controller connection	
Wall Controller 3	Second slave wall controller connection	
Wall Controller 4	Third slave wall controller connection	
Modbus A	Modbus Communications Terminal A	
Modbus B	Modbus Communications Terminal B	
Room sensors Active (9)	Room sensors Active terminal	
Room sensors Common (9)	Room sensors Common terminal	
Damper Drive Open (10)	Damper drive open terminals - 24VAC when dampers are open	
Damper Drive Closed (10)	Damper drive closed terminals - 24VAC when dampers are closed	
Damper Common (10)	Damper 24VAC common	

DIP Switch Settings

There are 8 DIP switches on the Inspire Touch HVAC board. The first three are used for setting the function of the Inspire Touch to match the type of equipment under the Inspire Touch's control.

These settings must be done before power up. If these switch settings are changed after power up, you must power cycle the HVAC board before the new settings will take effect.

Switch	Off	On
Sw 1 – Fan Speeds	1 Single speed fan	3 speed fan
Sw2 – System	Heat Cool Mode	Heat Pump mode
Sw3 – Reversing Valve (If Sw 2= ON)	Energise in Cool (O)	Energise in Heat (W)
Sw3 – Fan with Heat (If Sw 2= OFF)	Fan controlled by heater (HG)	Fan controlled by Inspire
		Touch (HE)

Switch 4 to 8 should be left off - these have reserved functions.

Switch 1 sets the number of fan speeds for the indoor fan. If set for single fan speed only G1 (low) fan output is used.

Switch 2 sets the control method.

In HP mode the Inspire Touch will cycle the Equipment on or off in heating or cooling using the "Y" relay outputs. The W1/OB outputs sets heating or cooling mode and does not normally change status unless the opposite mode is called or after 2 hours – whatever occurs first. In HP mode it is normal to have both "Y" & "W" on at the same time.

In HC mode the "Y" output(s) just controls cooling, the "W(/OB)" output(s) just control heating. In HC mode you will never have "Y" & "W" on at the same time.

Switch 3 sets either the fan mode or reversing valve logic based on the position of switch 2. If switch 2 is off (heat cool system under Inspire Touch control) then switch 3 sets whether the Inspire Touch calls for the indoor fan in heat. (Sw 3 off – HG mode – Inspire Touch lets the Gas Heater (HG) call its own fan. Switch 3 on – HE mode, Inspire Touch will call for the fan to start when electric heating (HE) starts. If switch 2 is on, then switch 3 sets reversing valve mode. Energise the reversing valve in Cool mode (Sw 3= OFF) or energise the reversing valve in heat mode (Sw 3= On)

Relays

The Relays on the HVAC card are rated at 24v @ 5A maximum each. All equipment relays run through a 15A 3AG fast blow glass fuse. The assignable relays rely on external fusing for protection.

Temperature Sensor

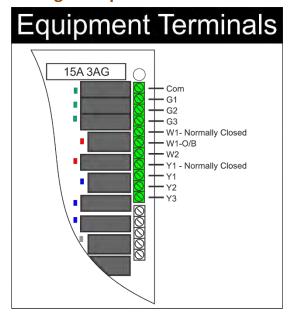
The Inspire Touch sensors are 10K NTC type to. The Inspire Touch is compatible with all of Smart Temps range of temperature sensors.

0-10v Output.

The Inspire Touch HVAC card has three 0-10v analogue outputs. AO 1 is assigned as capacity control output for digital scroll air conditioners. AO2 & AO 3 have installer assignable functions.

The Inspire Touch HVAC card has a number of Inputs and outputs. A table outlining these functions is provided below.

Wiring Examples



The top Right corner of the UCC you will find the terminals that will permit the control a typical analogue "RYWG" system.

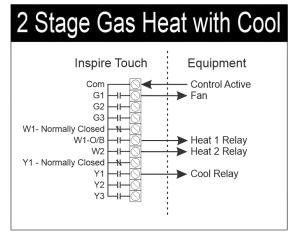
The DIP switch (Page 19) will configure the way these relays operate. Alternatively, the Inspire Touch also offers 0-10V outputs for controlling modulating heating and cooling vales, as well as for other functions.

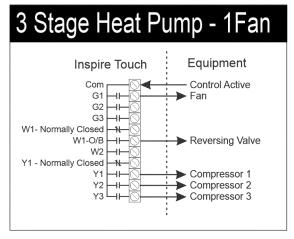
Several examples of wiring various systems are provided below.

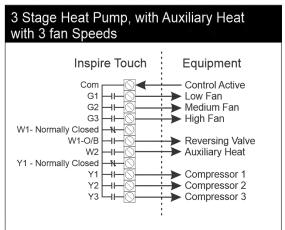
Please note, not all possible wiring examples can be provided here. For example, If you have a 3 fan speed 2 Stage Heat Pump System you may use the single

stage Heat Pump drawing and just add the compressor output for the second stage.

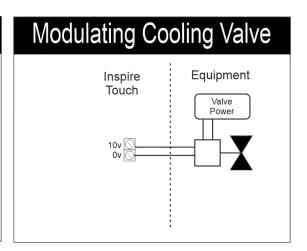
Heat Pump - 3 Fan Speeds Inspire Touch Equipment Com Control Active G1 Low Speed Fan Medium Speed Fan G2 G3 High Speed Fan W1- Normally Closed W1-O/B Reversing Valve W2 Y1 - Normally Closed Compressor







Elect Heat, Do/Dc Cool Valve Equipment Inspire Touch Com Control Active Low Fan Medium Fan G2 G3 High Fan W1- Normally Closed W1-O/B Heat Relay Cool Valve Closed Y1 - Normally Closed Cool Valve Open



Controlling Digital Inverter Systems

Note - To use ModBus functions you must connect terminals 7 & 8 from wall controller 1 to terminals 7 & 8 on thermostat 1 input on the Inspire Touch Unit Control Card

The Inspire Touch, via a model specific adapter can control various Digital Inverter Systems. This includes changing modes and capacity output if permitted by the system. When ordering the Inverter Adaptor, we must know the brand on model number of the system you wish to control.

The Inspire Touch if fitted with a Modbus Port that is used to connect to the Inverter Adapter.

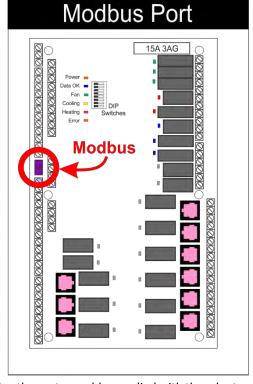
Each Inverter Adapter module is supplied with a custom cable and detailed instructions on setting the adapter up to the specific air conditioning system requirements.

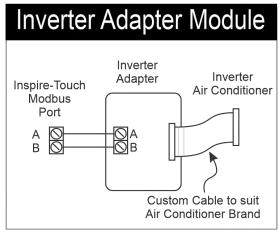
Simply connect the Inspire Touch Modbus "A" & "B"

terminals to the Inverter Adapter "A" & "B" terminals and plug the custom cable supplied with the adapter into the Air Conditioner wall controller input. These cable and connections vary brand by brand, so it is important to follow the specific instructions supplied with the Inverter Adapter.

Not all functions supported by one brand of air conditioner may be supported by other brands. This is not a limitation of the Inspire Touch Controller.

Please discuss your needs with Smart Temp or an authorised distributor should you have questions.





Wall Controller Connections

The Inspire Touch wall controller(s) are the user interface for the Inspire Touch system. The wall controller is a backlit 5" colour touch screen with temperature, humidity and light sensors. Up to 4 wall controllers can be installed on any one Inspire Touch system and changes made on any one wall controller will be automatically updated to the others.

The wall controller connects to the HVAC unit control card via either 4 or 6 wires (the last <u>or</u> only wall controller uses 4 wires; all other previous wall controllers requires 5 wires. A single HVAC card and a single wall controller requires only 4 wires) with a maximum recommended length of 30 meters.

Screened cable of 0.25 mm per conductor is recommended especially for long runs or when the runs may be in noisy environments.

The wall controller connected to wall controller input 1 is the "Master Wall Controller" and is the only wall controller that will permit you to make

Wall Controller 3 Wall Controller 4

1 2 3 4 5 6 1 2 3 4

Wall Controller 1 Wall Controller 2

1 2 3 4 5 6 1 2 3 4 5 6

Wall Controller 1 Wall Controller 2

1 2 3 4 5 6 1 2 3 4 5 6

Wall Controller 1

system adjustments in the Installer Menu. Taping the info icon will provide identity information on the wall controller.

Wall Controller selection is the first page you are greeted with when entering the installer menu

Wall controllers Wiring

If using ModBus you must wire terminal 7&8 from wall controller 1 to the Inspire touch Unit Control card thermostat 1input, terminal 7 & 8.

Inspire Touch System with 1 Wall Controller			
Wall Controller	Wall Controller Terminals	Unit Control Card	Wall Controller
Number		Terminals	Selection
Wall Control 1	1234	1234	Thermostat 1

Inspire Touch Syst	em with 2 Wall Controllers		
Wall Controller	Wall Controller Terminals	Unit Control Card	Wall Controller
Number		Terminals	Switch
Wall Control 1	123456	123456	Thermostat 1
Wall Control 2	1234	1234	Thermostat 2

Inspire Touch System with 3 Wall Controllers			
Wall Controller	Wall Controller Terminals	Unit Control Card	Wall Controller
Number		Terminals	Switch
Wall Control 1	123456	123456	Thermostat 1
Wall Control 2	123456	123456	Thermostat 2
Wall Control 3	1234	1234	Thermostat 3

Inspire Touch System with 4 Wall Controllers			
Wall Controller	Wall Controller Terminals	Unit Control Card	Wall Controller
Number		Terminals	Switch
Wall Control 1	123456	123456	Thermostat 1
Wall Control 2	123456	123456	Thermostat 2
Wall Control 3	123456	123456	Thermostat 3
Wall Control 4	1234	1234	Thermostat 4

Zoning

Zone control can vastly improve user comfort by ensuring only areas of the home or office that require heating or cooling are heated or cooled. Zones that are unoccupied or those that enjoy natural heating from the sun or cooling in shade receive less conditioned air. This reduces energy costs and has the added advantage of requiring a smaller AC system to be required.

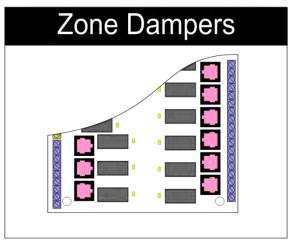
Although only a small section in this manual discusses the Inspire Touch Zone control, zone control is a significant part of the Inspire Touch system. If using the Inspire Touch for zoning and you wish to get the best performance from the Inspire Touch, the zones under the Inspire Touch control and the HVAC system connected to the Inspire Touch it is important that you understand the straightforward way the Inspire

Touch operates when controlling zones.

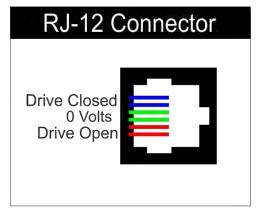
Zone Wiring.

The Inspire Touch system will only accept 24V Drive Open and/or Drive Closed actuators connected to the UCC RJ-12 interface (0-10V actuators are independently supplied so can be any voltage)

All zone motors are wired directly to the Inspire Touch Unit Control Card as shown to the right. Drive open/closed motors are powered by the Unit Control card 24VAC input. (Ensure the power



supply used to power your Inspire Touch has enough power to also power the 24V dampers The Smart Temp SZ-PS 2A 24V power supply is recommended.)



Standard Drive Open / Drive Closed are connected to the Inspire Touch UCC using the RJ12 terminals shown in pink above.

There are 6 PINS inside the RJ12-connector, the two centre pins are 0V, the two on either side are Drive open and drive closed as shown by the drawing to the left.

When using modulating (0-10v dampers) simply wire the damper to the zone terminal 0 and 10V.

For those that have or wish to use wired dampers (that do not use the RJ12 connectors but have 3 terminals) Smart Temp provide adapters. Pn SZ-RJTB.

0-10V dampers

When wiring modulating (0-10V) motors use the terminal strip (shown above in purple). The damper control signal wires between the 10V and 0V terminal for each zone.

2 wire Zone sensors

The Inspire touch can use any of the wall controllers fitted to measure a zone temperature as well as standard wired Smart Temp 2 wire sensors (P/N Rs-1/2).

Zone sensors share the terminal strip with the 0-10V damper outputs shown above in purple. The sensors are not polarity dependent and wires between the sensor and 0V terminal for each zone.

Understanding the Zone Settings

Should you wish to enable it, the Inspire Touch has intelligent zone management logic will ensure the zone control operates in such a way to meet the expectations of the user while maintaining the demands of the AC equipment under the Inspire Touch control. These settings are optional but if set correctly they can significantly improve the Inspire Touch zoning performance.

Fixed capacity AC systems especially require a minimum amount of air flow through them to run effectively, without this minimum flow requirements being met the efficiency (and health) of the AC system may suffer. The Inspire Touch zone control system must know when it is safe to run the heating or cooling systems and when unsafe. The Inspire Touch ideally also needs to know if there is too much demand for the available capacity of the HVAC system.

For Example, lets imagine a hypothetical building has 4 zones that requires heating. Each zone is an identical size and each zone has identical demands. The fixed capacity AC system controlling these 4 zones has too much capacity to run just one zone alone, one zone alone

calling heating will restrict air flow through the AC system to much potentially causing damage to the ducts or to the heating system itself.

Two zones calling is ok, but not ideal. Any 3 zones calling is perfect however when all 4 zones are calling the AC system heating at the same time the heating system will struggles to meet the total demand.

The Inspire Touch zone settings menu permits the installer to define the minimum and maximum capacity of the AC system for heating and cooling and apply that to when zones can be heated (or cooled).

By using the Inspire Touch zone control settings in the above example, the Inspire Touch will not run heating if any one zone calls; it will wait for more than 1 zone to call before staring the heating system. When 2 zones call the Inspire Touch will start the system in heating mode but can restrict fan speed to low (when AC systems with 3 fan speeds are used) or additionally open a "spill" or "relief" damper to move excess capacity to a communal area thereby easing the load on the heating system. If any 3 zones call the Inspire Touch will close the "spill" or "relief" damper and permit higher fan speeds to operate. If 4 zones are called, the Inspire Touch will select the 3 most important zones, as defined by you and use the heating system to heat those zones first, when one of those 3 reach temperature the Inspire Touch will then heat the last zone. When only one zone remains needing heating (hopefully not too much now) the Inspire Touch will shut the AC system down to protect it.

In the real world not all zones are created equal and not all zones have an identical demand as shown in the example to the right. The Inspire Touch overcomes these issues by using an easy to understand "scoring" system. The Inspire Touch zone scoring system is relative to the building and not based on a fixed score that is directly proportional to M³ of zone size.

Zone 1 (Score 4)

Zone 3 (Score 2)

Zone 4 (Score 6)

Zone 1

Zone 3

Zone 2

Zone 4

In this case zone 4 if called alone is ok as its quite large and has sufficient capacity, as is zone 2, but zone 1 and 3 are both too

small to run alone or possibly even together if both zones demand heating as their combined size is still below the safe value to run the AC system in heating mode Simply put - the bigger the zone in the building relative to all the others zones in the building, the higher the "score" you give that zone.

The scoring system lets you define the zone size and the minium required score determins the minimum amout of demad that will permit the heating to start.

Hint - Maybe a easy way to understand the Inspire Touch zone scoring logic is to count the number of outlets in each zone. A small bedroom may have 1 outlet while a large family room may have 4 or 5 outlets. Give each zone a score based on the number of outlets in that zone. (So the afore mentioned bedroom would have a score of 1 and the family room have a score of 4). Then simply set your minium score to call for heating or cooling to start based on the number of outlets you require to be open before the heating and cooling can start. (This example assumes equal heat loads and outlet sizes but may help explain the logic of the system)

The Inspire Touch permits you to assigning a zone size from 1 (very small zone) to 6 (very large zone) for each zone in the Zone Setup window, plus set a zone priority from low too high for each zone. Further the Inspire Touch permits you to give the AC system a minimum and maximum heating and cooling demand

"score" as well as high fan speeds and spill or bypass damper a "scores". The zone "score" works with the equipment demand "scores"

In this example, zone 4 being the largest would get a score of 6. Zone 1 the smallest zone would get a score of 1. Zone 3 would get a score of 2 and zone 2 a score of 4 for example.



In the equipment setup for zoning (shown right) we could then give the minimum heating demand "score" a value of 4, meaning that the sum of the individual zones "score" calling for heat must exceed 4 before the AC system is permitted to start heating. We can also set a maximum heating score of 7 should we wish so that if the sum of the "scores" from all of the calling zones exceed 7 the Inspire Touch will close down zones based on the zone priority as set in the installer Zone Setup menu. Fan speeds and spill dampers



are also able to have a "score" assigned to them to determine when and how they function.

Zone scoring is optional, if you wish the factory default settings can be left unchanged and the Inspire Touch will heat and cool all zones as each zone demands heating and cooling without restriction. The Inspire Touch can be as powerful with its zone control options as you wish, or left as a basic zone control.

Zone Control Methods

To further tune your Inspire Touch zoning capability - three zone control methods are provided.

No adjustment mode (Basic Control Method)

No adjustment control method is the most user restrictive method and is intended for use in commercial buildings where changes to the zone system and performance is not permitted. In this mode all zones must have temperature sensors fitted.

In non-adjustment mode the Inspire Touch has all zones locked on (zones cannot be turned off) and all zones will maintain the same set point as set on the wall controller. Dampers will open and close automatically when required to ensure the setpoint is maintained however all user control of individual zones is prohibited.

An example is - an office building with 5 offices being serviced by 1 air conditioner and all offices are to maintain 22.c

Open Close only permitted (Open / Close damper logic)

This mode is similar to basic mode as described above insomuch that all zones maintain the same set point however in Open / Close mode the users are permitted to close some zones off when not required.

An example is an office building with 5 offices all serviced by one air conditioner and all occupied offices are to maintain 22.c however at times some offices maybe empty, so you are permitted to shut these zones down.

Full Control Method

Full control method offers the greatest control flexibility. It permits the user to have individual scheduling as well as individual heating and cooling set points in every zone. Adjust zone temperatures and schedules just as if every zone had its own dedicated HVAC system.

Zone Temperature Sensors

The Inspire Touch uses the standard Smart Temp 10K NTC type II sensor. Zone sensors are optional in zoning however if a sensor is not installer the Inspire Touch will be unable to control the zone temperature and only permit the user to open and close zones.

Ancillary Devices

Smart Temp also offer a number of additional optional components for your Inspire Touch.

Power supply. 24V @ 2 amp power supply. Enough to power both your Inspire Touch HVAC and zones cards. (part number SZ-PS)

RJ-24 Cables. The Inspire Touch uses standard "LAN" type RJ24patch leads to connect the Inspire Touch wall controller and zone card to the HVAC unit control card. These can be supplied in a range of lengths.

Room Sensors. When measuring zone temperatures the optional zone sensor is required. It is a two wire, non-polarity dependent sensor that connects to the Inspire Touch zone card temperature input terminal. (Part number RS-1)

RS-12 Cables. The Inspire Touch zone card is fitted with both terminal strips and RJ-12 connectors for zone damper wiring. Some find this method of wiring the zone dampers more convenient and less prone to error. The cables come in 15 meter lengths. (Part Number SZ-RJ12-15)

Installer menu

The Inspire Touch installer menu is protected by a Security PIN with the aim of limiting access to the Inspire Touch installer settings by any un-authorised (or uninformed) people. This PIN can be changed if desired however changing the PIN and then forgetting the new PIN will require the Inspire Touch wall controller to be returned to Smart Temp or an authorised service person for unlocking. There may be a fee for this service.



To enter the Inspire Touch installer menu, tap the installer Icon and on the PIN prompt screen that appears enter the PIN and then press next. If the PIN is correct you will enter the installer options menu. If the PIN is incorrect you will be exited from the installer menu.

The Inspire Touch default unlock pin is 1234 (One Two Three Four)

When in the installer menu, you will be presented with many tabbed pages (Tabs are shown at the bottom of the page). On each page there are a list of options that can be selected. The option name is shown to the left and the current value for the option shown to its right.

To change a value simply tap the option value you wish to change, it will highlight Yellow to



show it has been selected Lockout Heating Above in the above example). Use the up/down button to scroll through the options or values available for that option selected. Press "DONE" to save the change.

Please Note - the Inspire Touch options pages are dynamic. Options will vary based on the Inspire Touch HVAC card DIP switch settings as well as other settings within the Inspire Touch System.

The pages and options on each page are listed below.

Equip(ment) Tab (HP Mode Sw 2 =On)

Value	Option
Comp 1	Span comp 1 Set in 0.1 steps 0.5 to 3c (displayed in local format C/F)
Comp 2	Span comp 2 Set in 0.1 steps Off to 3c (displayed in local format C/F)
Comp 3	Span comp 3 Set in 0.1 steps Off to 3c (displayed in local format C/F)
Heat 1	Reversing Valve (Display only – set by DIP 3)
Heat 2	Stage 2 Heat Span Set in 0.1 steps 0.5 to 3c (displayed in local
	format C/F)
E-heat fitted	Emergency Heat fitted Yes/No
Use Aux heat Below	Requires outside air sensor – Disable comp and use Aux Heat below this
	value
Use Aux heat after	
Fan with Aux Heat	
Comp with Aux Heat	
Stage Fan Speed	
Smart Fan	Tick to enable Smart Fan function (Commercial Programmable indoor fan)

Equip(ment) Tab (HC Mode Sw 2 =On)

Value	Option
Stage 1 Cool	Span comp 1 Set in 0.1 steps 0.5 to 3c (displayed in local format C/F)
Stage 2 Cool	Span comp 2 Set in 0.1 steps Off to 3c (displayed in local format C/F)
Stage 3 Cool	Span comp 3 Set in 0.1 steps Off to 3c (displayed in local format C/F)
Stage 1 Heat	Reversing Valve (Display only – set by DIP 3)
Stage 2 Heat	Stage 2 Heat Span Set in 0.1 steps 0.5 to 3c (displayed in local
	format C/F)
Fan with Heat	Indoor fan mode in heat (Display only – set by DIP 3)
Stage Fan Speed	
Smart Fan	Tick to enable Smart Fan function (Commercial Programmable indoor fan)

Limits Tab

Value	Option
Max Heating Set Temp	This is the maximum heating set temperature the user is permitted to select
Min Cooling Set Temp	This is the Minimum cooling set temperature the user is permitted to select
Lockout Heating Above	Heating will be disabled when outside temperature exceeds this
	temperature
Lockout Cooling Below	Cooling will be disabled when outside temperature is below this
	temperature
Lockout Stage 2+ heat	Stage 2 and higher heating will be disabled when outside temperature
Above	exceeds this value. Stage 1 heating will still function
Lockout Stage 2+ Cool	Stage 2 and higher cooling will be disabled when outside temperature falls
Below	below this value. Stage 1 cooling will still function

Safety Tab

Value	Option
Anti-cycle Delay	Compressor anti cycle delay timer. (minimum compressor off time before
(All Compressors)	any restart)
Minimum Run Time	Once a compressor starts, it will run for this minimum period before
	stopping, regardless of any other value.
Fan Purge	Indoor fan will continue to run past heating / cooling stops if fan mode auto.
Warm Start	Will wait for indoor coil to warm before staring indoor fan in heating
Coil Temperature	Coil temperature before indoor fan starts
Heat Overshoot	Heating will continue to run until this value above user set point
Cool Overshoot	Cooling will continue to run until this value below cooling set point
Damper Delay	Time it takes for the zone damper to fully open from completely closed.
Dead band	The minimum distance permitted between users heating and cooling set
	points

Zone Tab

See "Setting up Zoning" on page 14 for information on the settings within this tab

Value	Option
Number of Zones	Enables zoning function and sets number of zones – Requires Zone
	hardware.
Zone Control Method	Select Basic, Normal, Advanced or Variable zone control logic.
Duct Pressure Sensor	Sets the Threshold (input voltage on zone card pressure input) that opens
	all dampers if ducts over pressurise
Limit fan to low Speed	Sets the "zone score" to limit fan speed to low
Min Heating Call	Sets the minimum "zone score" to enable heating
Min Cooling Call	Sets the minimum "zone score" to enable cooling
Max Heating Call	Sets the maximum "zone score" for heating capacity
Max Cooling Call	Sets the maximum "zone score" for cooling capacity
Min Damper Position	Sets the maximum damper position for 0-10V damper (Variable mode only)
Max Damper position	Sets the minimum damper position for 0-10V damper (Variable mode only)
Permitted Overrun	Sets the amount of "extra" capacity over equipment rated value.
	(Variable mode only)
Equipment Capacity	Sets the equipment capacity. (Variable mode only)
Zone Setup Button	Press to setup individual zone settings

Zone Setup Button

Value	Option
Zone name	Enter the name of the zone using the Keyboard. Upper/ lower case can be
	sued as well as numerals and other characters
Zone Control Method	Select zone control Method as described on page 25 of this manual
Zone Sensor	Select the temperature sensor used for this zone (if any)
Zone Size	Select the relative size of the zone when compared to other zones in the
	system
Zone priority	Set the zone priority when compared to other zones in the system
Minimum Damper	If using 0-10V dampers set the minimum closed damper position when the
	zone does not require heating or cooling
Maximum Damper	If using 0-10V dampers set the Maximum damper open position when the
	zone is being heated or cooled
Zone run alone	Check this box if you wish this zone to be able to run without the normal
	minimum score rules being met.

Advanced Tab

Value	Option
Economy Cooling	If enabled, an assignable relay can be used to draw in cool outside when
	suitable to cool the building. This replaces first stage cooling only.
Economy Temp	The economy cooling set temperature to use.
Economy Span	The difference between economy cooling on and off points.
Economy Comp	Select Compressor run status during economy cooling
Humidifier	If enabled, an assignable relay can be used to change state at the RH set
	value
Humidly Settings	RH threshold for assignable relay function
Filter Reminder	Enable / disable filter clean warning and set period.
Display C/F	Inspire Touch display units
Aux Relay 1	Assignable relay 1 function
Aux Relay 2	Assignable relay 2 function
0-10v 1	Assignable 0-10V 1 Function – Typically used for digital scroll capacity
	control.
0-10V 2	Assignable 0-10V 2 Function
O-10V 3	Assignable 0-10V 3 Function
0-10V Heat Span	Sets the range of the assignable 0-10V output when used for heating valve
	control
0-10V Cool Span	Sets the range of the assignable 0-10V output when used for cooling valve
	control

Event Tab

Value	Option
System Daily Events	Set number of daily events (active in programmable mode only)
Event 1 Name	Set event 1 name with keyboard
Event 2 Name	Set event 2 name with keyboard
Event 3 Name	Set event 3 name with keyboard
Event 4 Name	Set event 4 name with keyboard
Event 5 Name	Set event 5 name with keyboard
Event 6 Name	Set event 6 name with keyboard

PIN Tab

Value	Option
Change PIN	Enter a new pin, then re-enter to confirm PIN. Sets new installer PIN

Reset Tab

Value	Option
Reset To factory	Resets Inspire Touch to factory settings - NOTE - critical equipment control parameters are set via mechanical hardware switches. These values are NOT reset.

SD Card Tab

Value	Option
Copy wall paper	Upload custom wall paper into Inspire Touch from SD card. Note - Must be JPG files and formatted 800 x 480 in size.
	Wall paper must be loaded in the directory /Inspire /wallpaper
Upgrade Firmware	Upload new firmware from SD card.
	Note – firmware must be in the directory /Inspire /firmware

Details Tab

Value	Option
Company Name	Enter your company name as you wish it shown on the Inspire Touch Home
	screen Info/Contact page
Phone Number	Enter the phone number you wish shown on the Inspire Touch Home screen
	Info/Contact page
Web Address	Enter your company web page as you wish it shown on the Inspire Touch
	Home screen Info/Contact page
Email Address	Enter your email address as you wish it shown on the Inspire Touch Home
	screen Info/Contact page
Time lock Button	

Sensor Tab

Value	Option
Fitted Sensor	Use this setting to calibrate the temperature sensor fitted to the Inspire
calibration	Touch screen – this setting is for a hardware calibration offset.
	For zones fitted with temperature sensors other than the Inspire Touch
	Screen, the two wire RS-1 for example please use the calibration offset
	adjustment feature in the Zone setup window.

More Button

Value	Option
Move to next set of insta	ller option screens

Back Button

Value	Option
Moves to previous set of installer option screens	

Exit Button

Value	Option
Exits Installer Menu	

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