

Installation Guide

Voice Controlled Thermostat
TH9320WFV

EN



Voice Controlled Thermostat

- 1 **Home:** Touch to display Home Screen.
- 2 **System:** Touch to switch heating system on or off.
- 3 **Menu:** Touch to display options. Start here to set a programme schedule.
- 4 **Current Schedule:** Change temperature setting and select temporary or permanent hold.
- 5 **Indoor Conditions:** Shows indoor temperature.
- 6 **Current Date and Time.**
- 7 **Outdoor Conditions:** Outdoor temperature and humidity appears after registration.
- 8 **Current Status:** Shows system mode (heat on or off).



Introduction

This document is intended to help you make a fast, safe and trouble-free installation of the Honeywell Voice Controlled Thermostat. The thermostat works as a normal programmable thermostat, but when connected to a Wi-Fi network it accepts a whole range of voice commands, which is constantly being expanded and improved.

Registering the thermostat with Honeywell and downloading the 'Total Connect Comfort Europe' smartphone or tablet app allows access to the thermostat from anywhere. A Wi-Fi connection is required for voice control, so the thermostat should be installed in a location with a good Wi-Fi signal. If signal strength is poor, a Wi-Fi range extender may be required.

Before you begin you will need:

- Toolkit with screwdrivers and wire-strippers.
- The home Wi-Fi network password.
- Depending on the type of installation, a length of mains cable may also be required.
- The thermostat MAC ID and MAC CRC number, which can be found on either:
 - a label on the back of the thermostat
 - the Register Online screen on the thermostat during the registration process
 - the screen at **Menu > Wi-Fi Setup** after the thermostat has been connected to your Wi-Fi system.



MAC ID:

MAC CRC:

Installation notes — read these prior to installation



- For mounting on a flush wallbox of depth greater than 25mm.
 - Wiring to terminals must be done before wallplate is screwed to wallbox.
 - Product requires a permanent 230Vac mains power supply to operate
 - Switch output is potential-free 24V ... 230Vac
 - Installation should be carried out by a competent person.
 - All wiring must be in accordance with IEE regulations.
 - This unit is for fixed wiring only.
 - A switch, having contact separation of at least 3mm in all poles must be incorporated in the fixed wiring as a means of disconnecting the supply.
 - The system must be appropriately fused. A fuse rating of no more than 5Amps should be installed.
 - The unit is Class II (double insulated) so device earthing is not required. A hook is provided for parking an earth wire.
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Step 1: Wallplate installation and wiring

1.1 Switch off power to your heating system.

Isolate power supply at fused spur and make safe before wiring.

For replacing an existing room thermostat

1.2 Remove old thermostat, taking care to note the function of each wire.

1.2a Your Voice Controlled Thermostat requires a 4 wire connection. Live and Neutral power supply from the fused spur and a 2 wire contact closure output to operate the boiler.

1.2b If insufficient wires are present an extra cable will have to be run to the thermostat. This should be rated for 230Vac operation. Use of a junction box in the system wiring is recommended to avoid confusion.

Now go to Step 1.5 Connect wires.

For new thermostat installation

1.3 Install wallbox at proposed thermostat location.

- 1.3a Identify a suitable thermostat location. This should be on an internal wall 1.2 to 1.5m from the floor away from any sources of heat or draughts.
- 1.3b Install a plastic flush wallbox of depth greater than 25mm at this location.

Note: Further information and advice on locating your thermostat can be found on Page 29.

1.4 Run wiring from fused spur to new thermostat location.

- 1.4a Your Voice Controlled Thermostat requires a 4 wire connection. Live and Neutral power supply from the fused spur and a 2 wire contact closure output to operate the boiler.
- 1.4b Run cables to new thermostat location. These should be rated for 230Vac operation. Use of a junction box in the system wiring is recommended to avoid confusion.

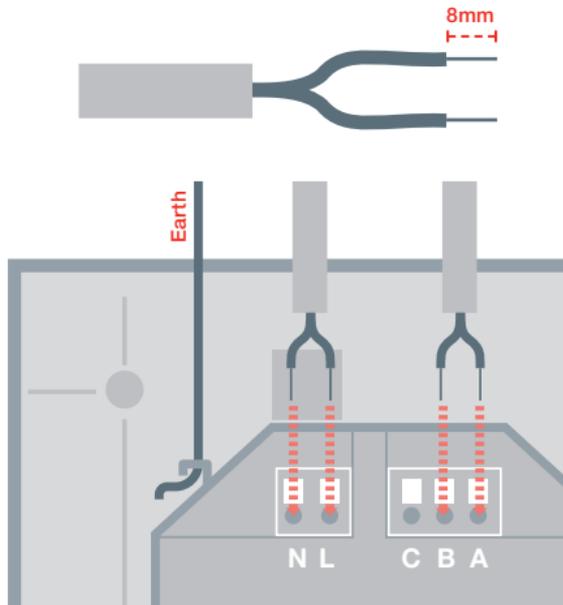
Now go to *Step 1.5 Connect wires.*

Step 1: Wallplate installation and wiring *continued*

1.5 Connect wires.

- 1.5a Strip back insulation from conductors by 8mm.
- 1.5b Connect wires to terminals as shown by pushing bare end of conductor into holes in wiring terminals. The wires will be gripped by the internal mechanism.
- 1.5c Check each wire is securely connected by giving it a gentle pull.

Note: to disconnect any wire, press on the tab next to it then pull the wire from the terminal hole.
See *Step 2: Wiring schematics* for details.



1.6 Mount Voice Controlled Thermostat wallplate to wallbox.

Mount wallplate to wallbox using the screws provided, taking care not to damage any of the wires or wiring connections.

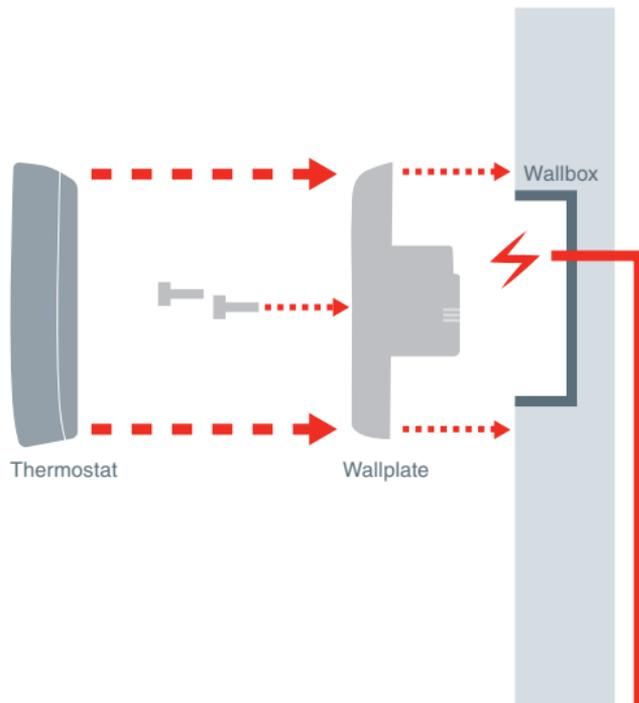
1.7 Attach thermostat to wallplate.

Align the thermostat with wallplate and snap into place.

1.8 Switch heating system on.

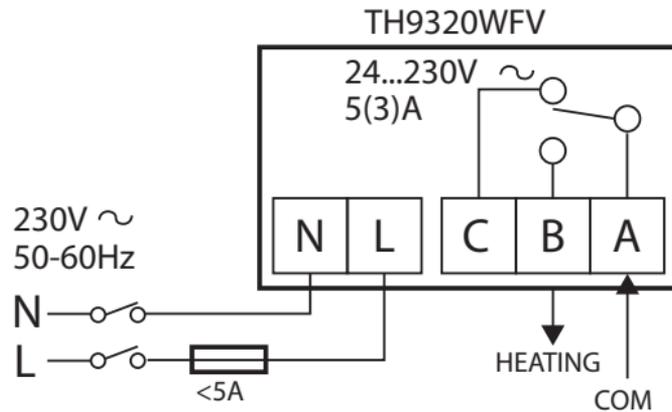
Switch heating system on at fused spur and verify that the thermostat display lights up.

Now go to Step 3: Set initial thermostat configuration options.



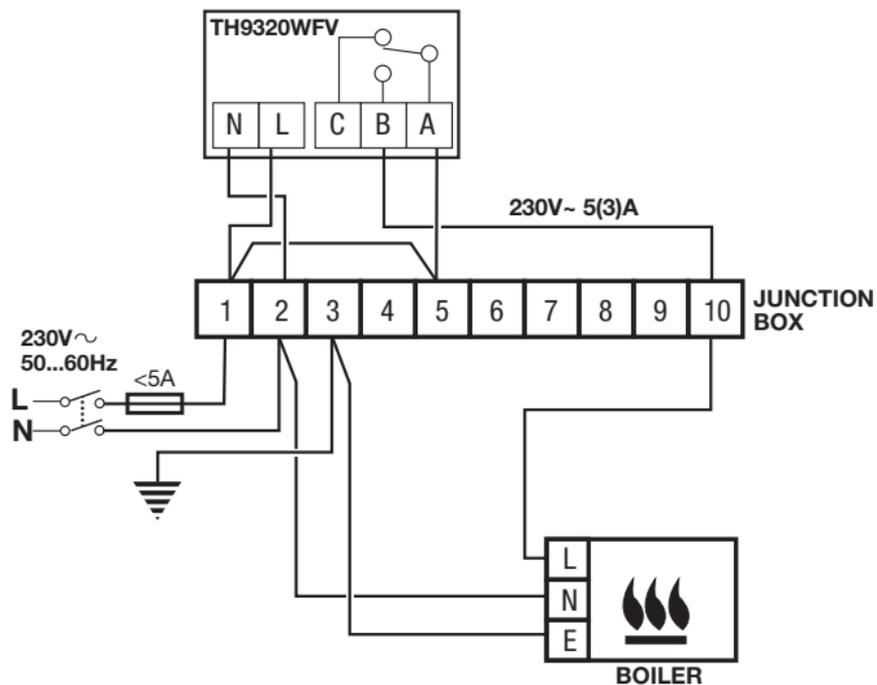
Step 2: Wiring schematics

Internal wiring



Typical wiring connections

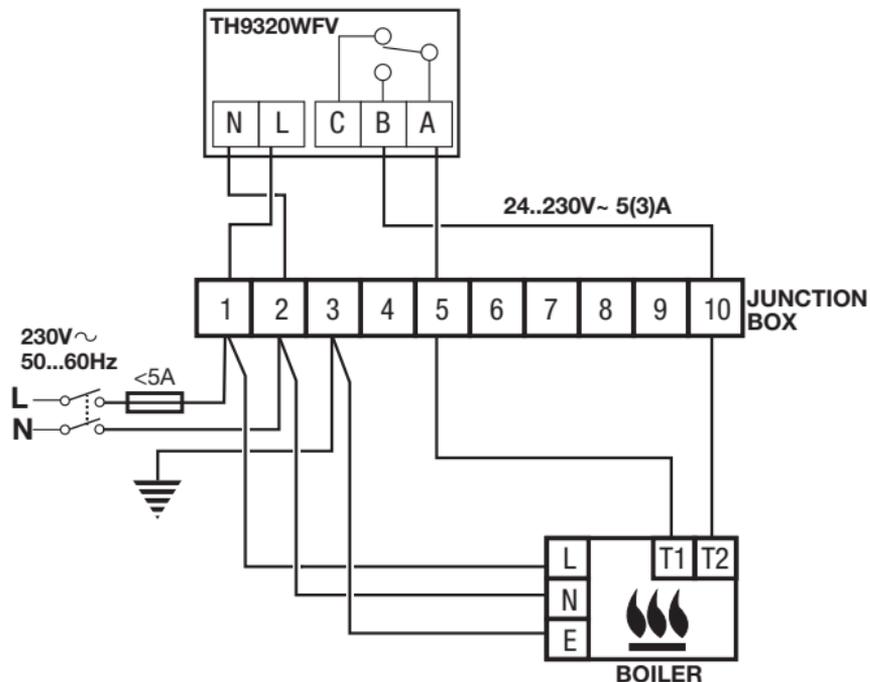
Basic Boiler



Step 2: Wiring schematics *continued*

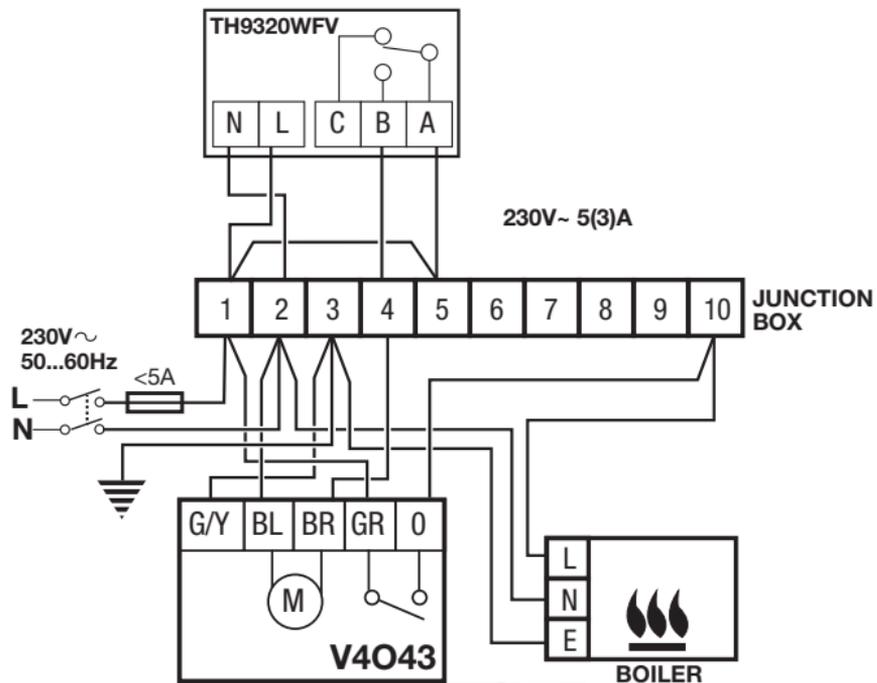
Typical wiring connections

Combi Boiler



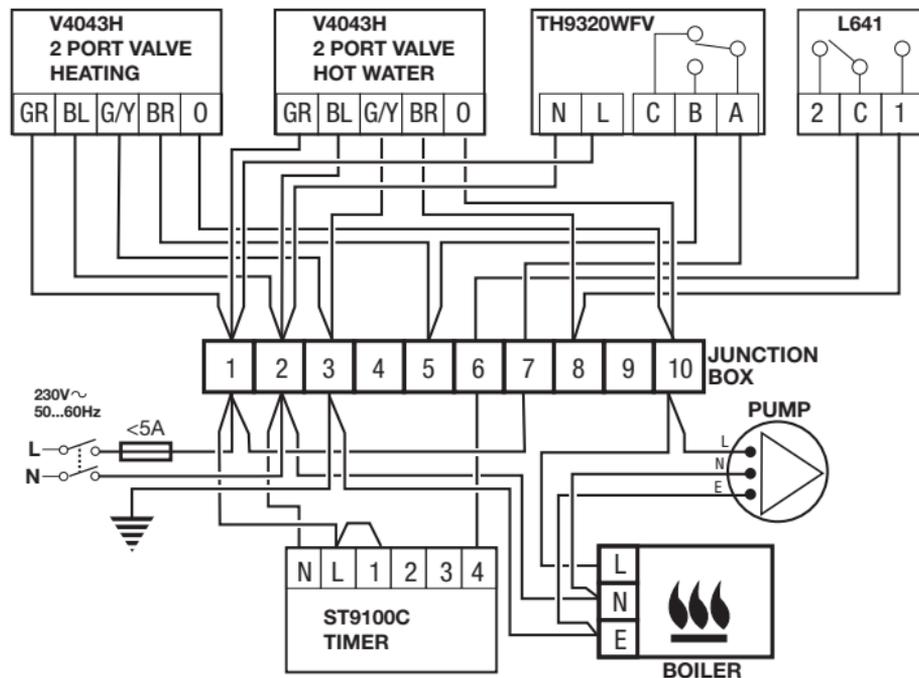
Typical wiring connections

Zone Valve



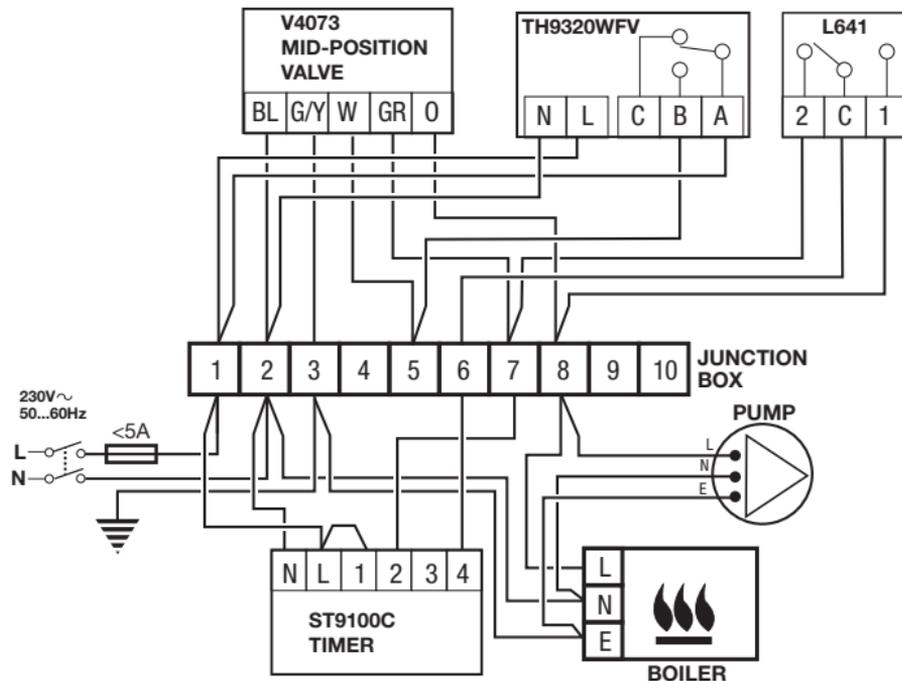
Typical wiring connections

Sundial S Plan



Typical wiring connections

Sundial Y Plan



Step 3: Initial setup

Upon initial power up, or after being reset to factory defaults, the initial thermostat options (language, boiler cycle rate, minimum on-time) must be set to define the heating system. Other options can be customised later.

Follow prompts on the screen to select appropriate options. **HELP** buttons are available to provide assistance.

- 3.1 Touch the language you want the thermostat to display, then touch **Next**.
- 3.2 Choose the appropriate Cycles Per Hour for the installation (for guidance see table in *Step 4: System set up options*). Use the arrows to select the value, then touch **Next**.



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- 3.3 Choose the appropriate Minimum On/Off Time for the installation. Use the arrows to select the value then touch **Done**.
- 3.4 The thermostat now displays an option to connect to the Wi-Fi network. For details go to *Step 5: Connecting to a Wi-Fi network*.



Step 4: System setup options

At any time during use, these initial system setup options can be modified. From the Home screen, touch **Menu > System Setup** to see the first option screen again.

Screen title	Settings and operations	Defaults
Cycles Per Hour	1...12	6
Minimum On Time	Off, 1...15 minutes	1

See table below for guidance on what setting to use for different applications.

Application	Settings		What to change
	Cycles per hour	Minimum on/off Time	
Gas Boiler (<30kW)	6	1	No changes required
Oil Boiler	3	4	Set cycles per hour = 3 Set minimum on time = 4
Zone Valve	6	1	No changes required

Step 5: Connecting to a Wi-Fi network

After the initial setup, walk the homeowner through connecting to a Wi-Fi network. Alternatively, refer them to the online User Guide at: www.getconnected.honeywell.com so the homeowner can connect the thermostat to a Wi-Fi network at a later time.

5.1 Connect to the Wi-Fi network.

After completing the initial setup, the thermostat offers the option to connect to a Wi-Fi network. Touch **Yes** and the screen displays the message “Searching for wireless networks. Please wait...” Then it displays a list of all Wi-Fi networks it can find along with an indication of signal strength for each.

Note: if you cannot complete this step now, touch **I'll do it later**. The thermostat will display the home screen. When you do want to connect, select **MENU> Wi-Fi Setup** and then continue with Step 5.2.



Note: Voice control will NOT work without a Wi-Fi connection.

Step 5: Connecting to a Wi-Fi network *continued*

5.2 Select the network.

- 5.2a Touch the name of the homeowner's network.
The thermostat displays a password page.

Note: if the home network is not shown on the list, touch **Rescan**.

If **Rescan** still does not display the home network, signal strength may be poor at this location and a Wi-Fi range extender may be required.

- 5.2b Ask the homeowner to enter the home network password using the keyboard displayed.
- 5.2c Touch **Done**. The thermostat displays "Connecting to **your network**. Please wait..." then shows a "Connection Successful" screen.



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- 5.2d Touch **OK** and a “Register Online for Remote Access” screen will be displayed. Make a note of the MAC and CRC numbers, as these will be required during the Registration process, *Step 6: Registering the thermostat with Honeywell*.
- 5.2e Touch **Done** and the End User License Agreement will be displayed. Ask the homeowner to scroll down to read the whole text and then touch **Yes** to signify agreement. If the agreement is not accepted, the voice recognition feature will be switched off. If accepted, voice control is now active.
- 5.2f The thermostat now provides some options on “How to use Voice”. Touch **Next** from this screen to return to the Home screen.
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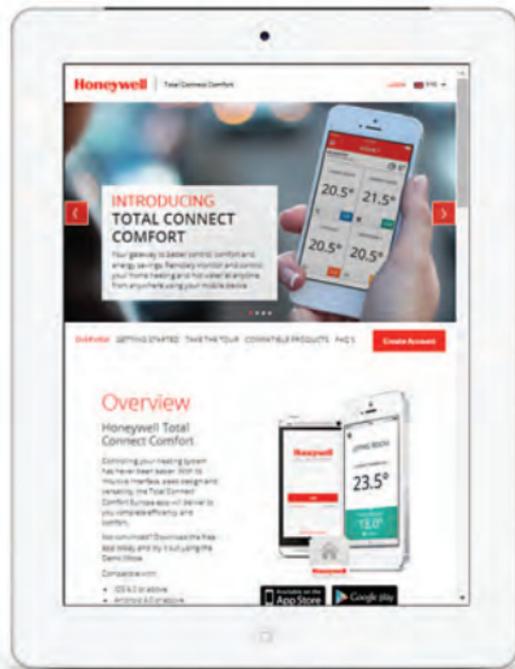
Step 6: Registering the thermostat with Honeywell

The homeowner must create an account and register the thermostat in order to allow automatic time/date setting and weather updates. Once registered, the 'Total Connect Comfort Europe' smartphone or tablet app can be downloaded to give the homeowner access to the Voice Controlled Thermostat from anywhere.

6.1 Create an account.

Have the homeowner go to:

www.mytotalconnectcomfort.com and follow the instructions to create an account.

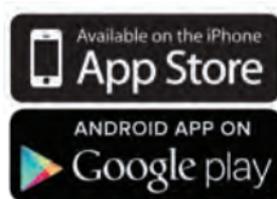


6.2 Register the thermostat.

When the account is activated and the homeowner has logged in, the thermostat can be registered. The thermostat MAC and CRC numbers will be required for this process. If not already noted, they can be found on the label on the back of the thermostat or on the screen at **Menu > Wi-fi Setup**.

6.3 Download the app.

To get the most out of the Voice Controlled Thermostat and access it from anywhere, download the 'Total Connect Comfort Europe' app from www.mytotalconnectcomfort.com



Select your store



Download the App

Step 7: Menu options

A range of menu options are available to customise the Voice Controlled Thermostat for the homeowner. Touch **MENU** to view these options.

Menu items	Options	Sub-menu options
Create / Edit Schedule	View / Edit Current Schedule	
	Guide me through scheduling	
	I'll do it myself	
View Schedule Summary	Today	
	Previous Day	
	Next Day	
Weather		
Voice Control	Voice On/Off	
	Volume	
	Sensitivity	
	How to use Voice	
Colour Themes		

Menu items	Options	Sub-menu options	
Preferences	Backlight		
	Smart Response Technology		
	Advanced Preferences	Number of Schedule Periods	
		Maximum Heat Limit	
		Keypad Lockout	
		Clock Format	
		Daylight Saving Time	
Indoor Temperature Display Offset			
Restore Default Schedule			
Restore Factory Defaults			
Equipment Status			
Date / Time	Set Time		
	Set Date		

Step 7: Menu options *continued*

Menu items	Options	Sub-menu options
Temporary Schedule Changes	View / Edit Schedule Changes	
	Holiday Mode	
	Stay Home From Work	
	Return Home Early	
	Return Home Late	
	Wake Up Early	
	Stay Up Late	
Clean Screen		
Security Settings	Change Lock Mode	
	Create Password	
Wi-Fi Setup		
System Setup	Heat Cycles Per Hour	
	Minimum On Time	

Step 8: Commissioning the system

- 1. Check the thermostat powers up correctly and the display is not blank.
 - 2. Set initial thermostat options (boiler cycle rate, minimum on-time) suitable for the homeowner and the application.
 - 3. Connect to the homeowner's Wi-Fi network.

Note: Voice control will NOT work without a Wi-Fi connection.
 - 4. Register online for remote access.
 - 5. Time and date will be set when Wi-Fi is connected and weather will also be available after the thermostat is registered. If Wi-Fi is not connected, time and date can be set under **Menu > Date / Time**.
 - 6. On the Home screen, change the set temperature to 32°C and confirm the following:
 - Status shows “Heat On”
 - Controlled equipment (eg boiler) switches on.
 - 7. Turn the set temperature down to a normal comfort setting.
 - 8. Show homeowner how to set a schedule.
Menu > Create/Edit Schedule
 - 9. Configure any other preferences to match the lifestyle and needs of the homeowner.
 - 10. Check the voice commands are working:
 - Say the trigger phrase “Hello thermostat” and wait for response.
 - Use any of the available voice commands. A list of these can be found on the leaflet “Talking with your Thermostat” included.
 - 11. Voice control, volume and sensitivity can be adjusted under **Menu > Voice Control**.
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Step 9: Completion checklist

- 1. Explain the operation of the product to the homeowner.
- 2. Write the date of installation, your name and telephone number in the space provided below.
- 3. Remember to leave this Guide and the other instructions with the homeowner and remind them to keep them in a safe place.
- 4. The thermostat has an intuitive interface and has Help text throughout to assist with use. A User Guide is available to download or view at www.getconnected.honeywell.com along with more information about the Honeywell Voice Controlled Thermostat.

Installation Data

Installation Date: _____

Installer & Contact Details: _____

Safety information

Approvals

Conforms to protection requirements of the following directives:

EMC: 2004/108/EC

LVD: 2006/95/EC

R&TTE: 1999/05/EC

Hereby, Honeywell, declares that this Voice Controlled Thermostat is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

EMC compliance considerations

Refer to Code of Practice standards EN61000 for guidance.

Caution: Isolate power supply and make safe before wiring the unit to prevent electric shock and equipment damage. Installation should be carried out by a competent person.

Location of device

The Voice Controlled Thermostat should be installed in an open space with a good Wi-Fi signal for best performance as it is a radio frequency device. Leave at least 30cm distance from any metal objects and at least 1 metre from any other electrical equipment eg. radio, TV, PC etc. Avoid mounting onto metal wall boxes where possible.

It is recommended testing the Wi-Fi signal strength of your chosen location is tested with a smartphone, tablet or other Wi-Fi-enabled device before installation. If an appropriate location with enough signal cannot be found then a Wi-Fi range extender may be required.

For the best temperature control performance the Voice Controlled Thermostat should not be placed near heat or cool sources (e.g. cooker, lamp, radiator, doorways, windows).

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Please respect your environment!

Take care to dispose of this product and any packaging or literature in an appropriate way.



WEEE directive 2012/19/EC
Waste Electrical and
Electronic Equipment
Directive

- At the end of the product life dispose of the packaging and product in a corresponding recycling centre.
- Do not dispose of the unit with the usual domestic refuse.
- Do not burn the product.

Technical data

Electrical

Power supply	230Vac \pm 10%
Output switching	24 ... 230Vac, 5(3)A max (fuse <5A)

Wi-Fi Communication

Standard	ETSI EN 300 328
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Environmental Specification

Operating temperature	0 to 40°C
Storage temperature	-20 to 50°C
Humidity	10 to 90% relative humidity (non-condensing)
IP Protection Class	IP30

Mechanical

Dimensions	Width 115mm, Height 89mm Depth (from wall) 34mm Wallplate protrudes 25mm into wallbox
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Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, ACS-ECC EMEA, Z.A. La Pièce 16, 1180 Rolle, Switzerland by its Authorised Representative Honeywell Inc.

Honeywell

Need help? For assistance with this product please visit:

www.getconnected.honeywell.com



Honeywell Control Systems Ltd.
Skimped Hill Lane,
Bracknell
Berkshire
RG12 1EB
www.honeywelluk.com

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