

# Honeywell

## evotouch Controller

Installation



# evotouch

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# Preface

This extended evotouch Installation Guide provides information about the installer functions available from the main configuration menu.



For information about the other installer functions of evotouch please refer to the printed *Installation Guide* supplied with evotouch.

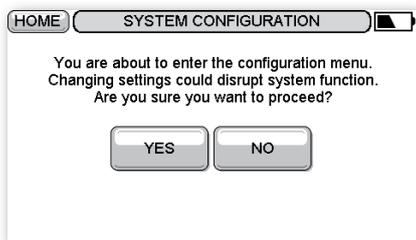
# System Configuration

The System Configuration menu provides access to the Installer configuration options.

To display the System Configuration menu:

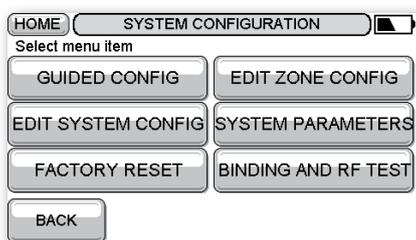
- Press **MENU** on the home screen for ten seconds.

The following warning will be displayed:



- Press **YES** to continue.

The System Configuration menu will then be displayed. This provides the following options:



These are described in greater detail in the following sections.

## Guided Config

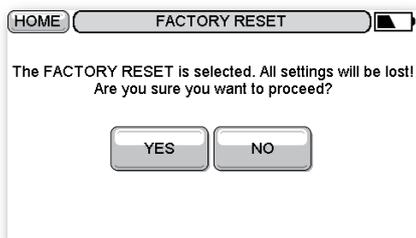
Leads you through the essential steps in setting up a system. For more information see the *Installation Guide*.

## Edit System Config

See *Edit System Configuration*, page 4.

## Factory Reset

Resets all settings to their factory defaults. The following prompt is displayed:



- Press **YES** to continue.

**Note:** After a factory reset the system configuration is also lost.

## Edit Zone Config

Allows you to edit the name, application, and sensor assigned to each zone. See *Edit Zone Configuration*, page 4.

## System Parameters

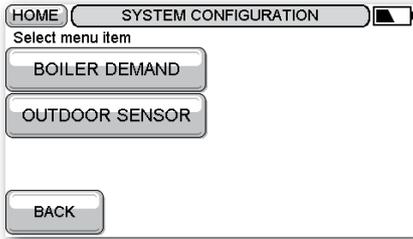
Allows you to set parameters affecting the operation of the whole system. See *System Parameters*, page 8.

## Binding and RF Test

Allows you to bind or test sensors or actuators throughout the system. See *Binding and RF Test*, page 9.

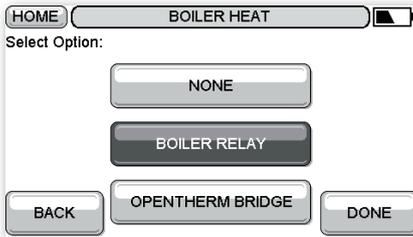
# Edit System Configuration

Allows you to edit aspects of the system configuration. It provides the following options:



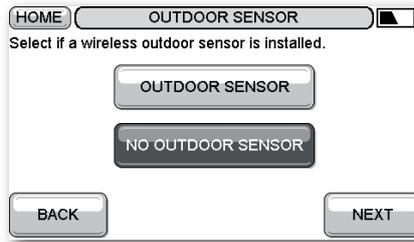
## Boiler demand

Allows you to specify whether the boiler is a heat demand device:



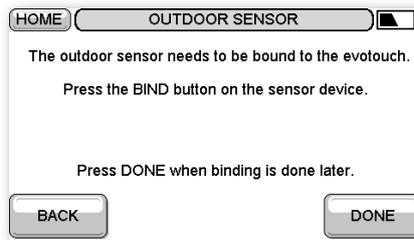
## Outdoor sensor

Allows you to specify whether there is an outdoor temperature sensor:



- To specify an outdoor sensor press **OUTDOOR SENSOR**.

You will then be prompted to bind the sensor:

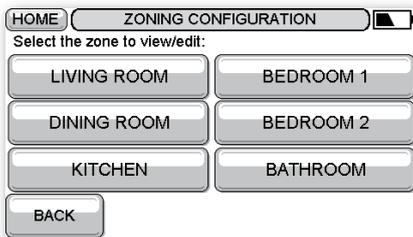


- When a successful response has been received press **DONE**.

# Edit Zone Configuration

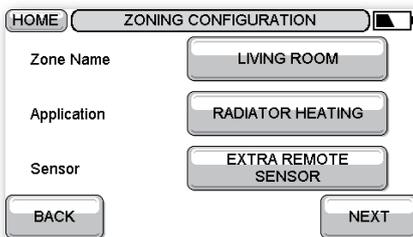
Allows you to edit the name, application, and sensor assigned to each zone.

You are first prompted to specify the zone you want to edit:



- Press the zone you want to edit.

The following menu shows the zone name, application, and sensor currently assigned to the zone:



From this screen you have the following options:

To do this	Do this
Edit the zone name	Press the button opposite the <b>Zone Name</b> label
Change the application	Press the button opposite the <b>Application</b> label
Change the sensor	Press the button opposite the <b>Sensor</b> label
Edit the application settings	Press <b>NEXT</b>

These options are described in greater detail in the following sections.

## To edit the zone name

- Press the button opposite the **Zone Name** label.

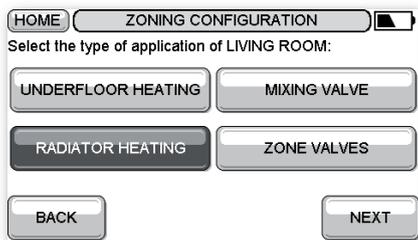


- Edit the name as required and press **DONE**.

## To change the application

- Press the button opposite the **Application** label.

The following menu allows you to choose the application:



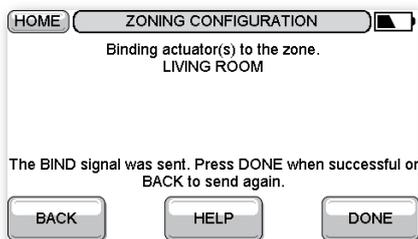
The currently selected application for the zone is shown highlighted.

- Press the appropriate application button.

The options are as follows:

Option	Description
Underfloor heating	Underfloor heating using an HCE80(R) or HCC80(R) controller.
Radiator heating	Radiator control using an HR80 radiator controller.
Mixing valve	Mixing valve control using an HM80.
Zone valves	Zone valve control using an HC60NG or BDR90.

You will then be prompted to bind the appropriate actuator:

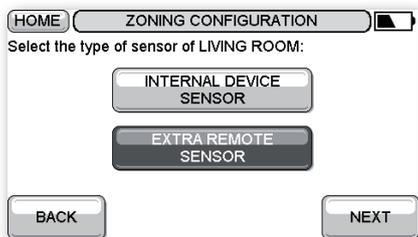


Once the actuator has been successfully bound you are returned to the Zoning Configuration screen.

## To change the sensor for the zone

- Press the button opposite the **Sensor** label.

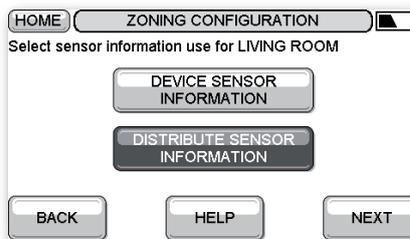
The following screen shows the currently selected sensor type:



- Press **INTERNAL DEVICE SENSOR** to use the internal temperature sensor in evotouch, in the zone where evotouch is situated, or **EXTRA REMOTE SENSOR** to use a remote sensor.

**Note:** Only one zone can be controlled by the internal sensor. Selecting the internal sensor automatically configures all other zones to use external sensors.

The following screen is then displayed:

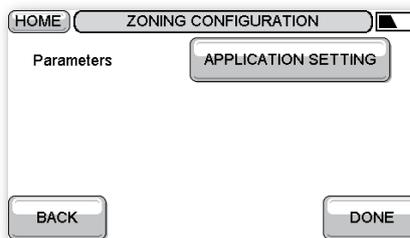


- Press **DEVICE SENSOR INFORMATION** to use the sensor for information only, or **DISTRIBUTE SENSOR INFORMATION** to distribute the information to all actuators in the zone.

## To edit the application settings

- Press **NEXT** on the Zoning Configuration screen.

The following screen is then displayed:

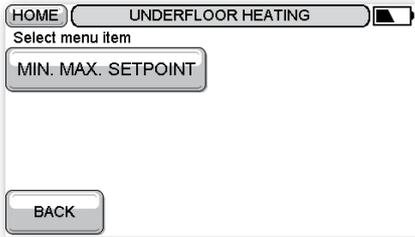


- Press **APPLICATION SETTING**.

The settings available for each of the applications are described on the following pages.

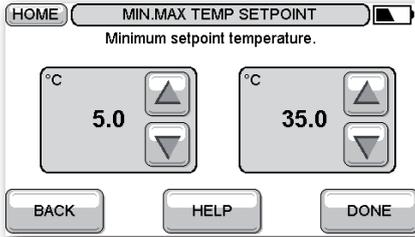
# Underfloor heating setting

The following setting is available for the Underfloor Heating application:



## Min. Max. Setpoint

This specifies the minimum and maximum temperature that can be requested for the zone:

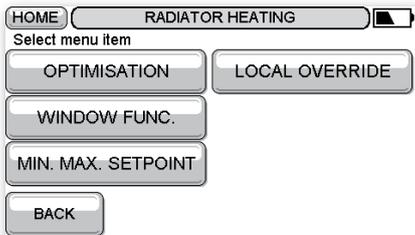


- Use the controls to set the minimum and maximum setpoints, and press **DONE**.

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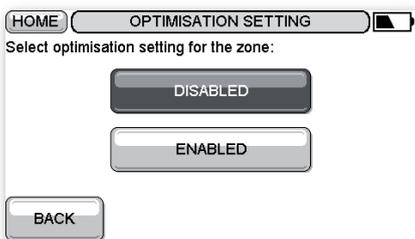
# Radiator heating settings

The following settings are available for the Radiator Heating application:



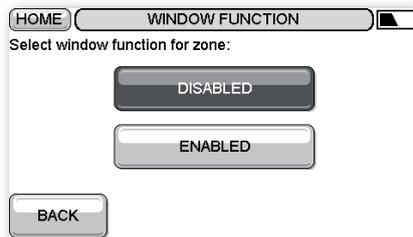
## Optimisation setting

Allows the HR80 to performance its own optimization calculation locally using the desired set point, measured temperature, and comfort schedule:



## Window function

Enables the function built into the HR80 that detects when a window is open (by measuring a drastic drop in temperature) and automatically closes the radiator valve for a certain time for energy saving:

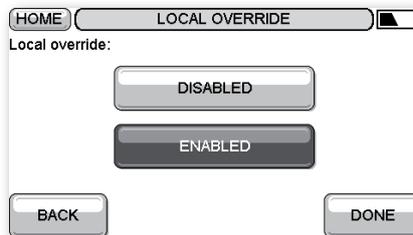


## Min. Max. Setpoint

See *Min. Max. Setpoint*, on this page.

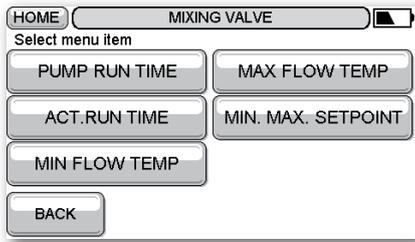
## Local override

Allows the setpoint to be changed at the HR80. This is valid until the next switching point:



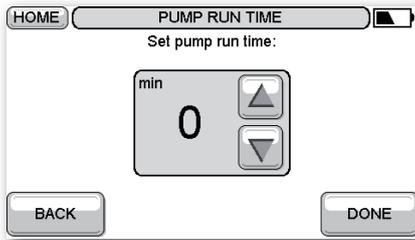
# Mixing valve settings

The following settings are available for the Mixing Valve application:



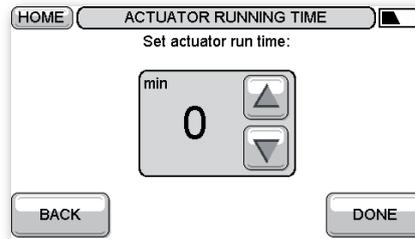
## Pump run time

Pump Run time (or pump overrun) specifies how long the pump in the heat source needs to keep running to extract all the heat to avoid blocking the heat source:



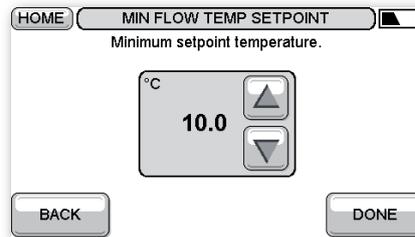
## Actuator running time

Specifies the amount of time to open/close the actuator, in the range 0 to 100%.



## Min flow temp, Max flow temp

The min/max flow temperature are limits to control the flow temperature to achieve the target room temperature setpoint and protect the heating system:

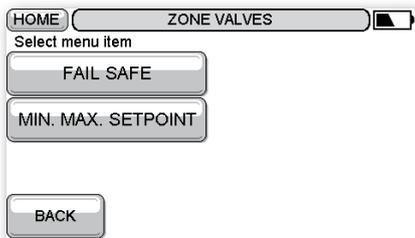


## Min. Max. Setpoint

See *Min. Max. Setpoint*, page 6.

# Zone valves options

The following options are available for the Zone Valves application:



## Fail safe

Specifies that the HC60NG/BDR90 output relay should switch OFF if the RF communication is lost:

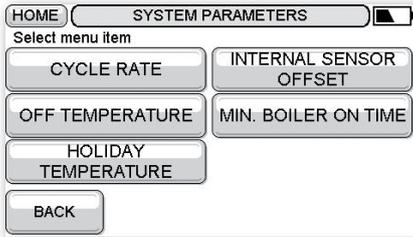


## Min. Max. Setpoint

See *Min. Max. Setpoint*, page 6.

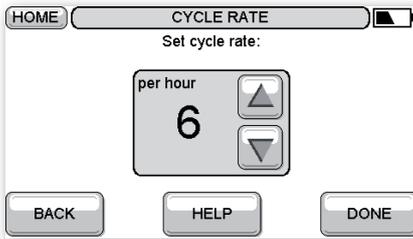
# System Parameters

Allows you to set parameters affecting the operation of the whole system:



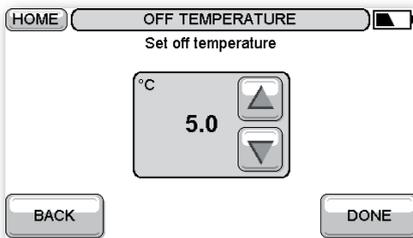
## Cycle rate

Specifies how often the boiler will switch on and off in any given hour. measured as cycles per hour. A typical cycle rate is 6 cycles per hour, giving a 10 minute cycle length.



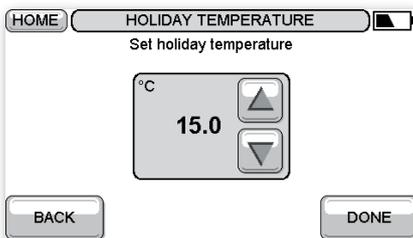
## Off temperature

Specifies the temperature that the system will revert to when the system is turned off, for frost protection.



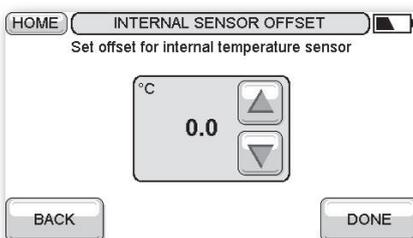
## Holiday temperature

Specifies the temperature set throughout all zones when the user selects Holiday mode:



## Internal sensor offset

Specifies the offset of the internal sensor temperature, when the unit is placed in a location where the measurement needs to be corrected:



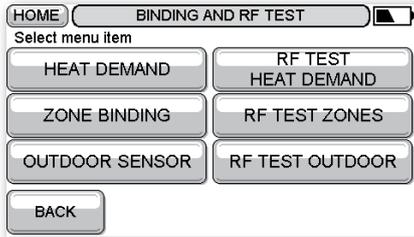
## Min. boiler on time

Specifies a minimum on time for the heat source, to ensure all the heat is dissipated from the system before shutting off.



# Binding and RF Test

Allows you to bind or test sensors or actuators throughout the system:

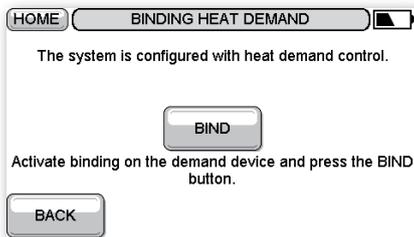


**Binding** will normally be performed with evotouch positioned beside the actuator or sensor, for convenience.

**RF Test** is then used to check the communication performance of all devices in their correct locations.

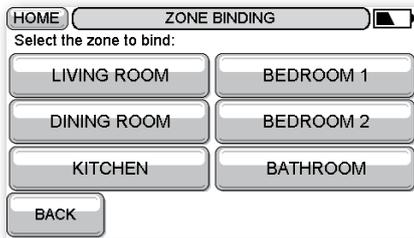
## Heat Demand

Binds to the heat demand device:



## Zone Binding

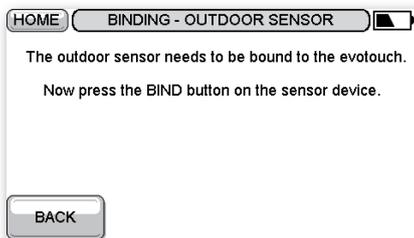
You are first prompted to specify the zone to bind:



You will then be prompted to bind one representative sensor and one or more actuators to the selected zone.

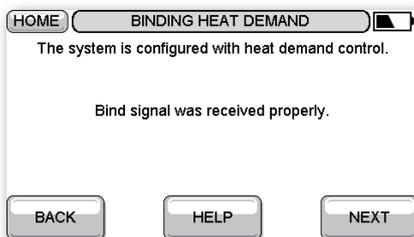
## Outdoor Sensor

Binds to the outdoor sensor:



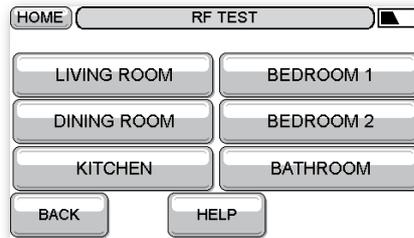
## RF Test Heat Demand

Tests the boiler heat demand:



## RF Test Zones

You are first prompted to specify the zone to test:



You will then be prompted to perform an RF test to the selected zone.

## RF Test Outdoor

Tests RF communication with the outdoor sensor.



# Safety information

## Approvals

Conforms to protection requirements of the following directives:

EMC: 2004/108/EC

LVD: 2006/95/EC

R&TTE: 1995/5/EC

## EMC compliance considerations

Refer to Code of Practice standards EN61000-5-1 and -2 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.

## Product handling

Care should be taken with the evotouch unit while it is out of its dock or table-top stand as the unit, particularly the touchscreen display, may be damaged if the unit is dropped onto a hard surface.

## Location of device

evotouch should be placed in an open space for best performance as it is a radio frequency device. Leave at least 30cm distance from any metal objects including wall boxes and at least 1 metre from any other electrical equipment eg. radio, TV, PC etc. Do not mount onto metal wall boxes.

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

## Disclaimer

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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 2002/96/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.
- Remove the batteries.
- Dispose of the batteries according to the local statutory requirements and not with the usual domestic refuse.

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